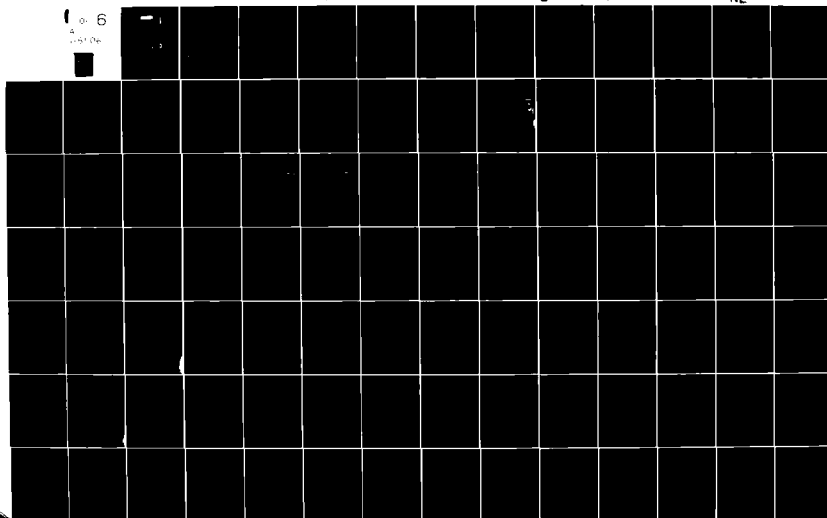


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NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (11)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NL

1 of 6

1 of 6



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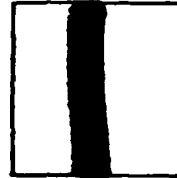
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REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

NATRONA CO/CASPER WY  
N 42 55 W 106 28 FLD ELEV 5368 FT CPR

MSC #725690

PARTS A-F  
POR FROM HOURLY OBS: JAN 73 - DEC 81  
POR FROM DAILY OBS: MAR 50 - DEC 81  
TIME CONVERSION GMT TO LST: -7

JUL 16 1982

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*Wayne E. McCollom*

WAYNE E. MCCOLLOM  
Chief, Technical Information Section  
USAFETAC/TST

FOR THE COMMANDER

*Walter S. Burgmann*

WALTER S. BURGANN  
AWS Scientific and Technical  
Information Officer (STINFO)



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1. REPORT NUMBER USAFETAC/DS-82/041	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- NATRONA CO/CASPER, WYOMING		5. TYPE OF REPORT & PERIOD COVERED Final rept.
		6. PERFORMING ORG. REPORT NUMBER
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) *RUSSWO      Daily temperatures      Atmospheric pressure Snowfall      Extreme snow depth      Extreme surface winds Climatology      Sea-level pressure      Psychrometric summary Surface Winds      Extreme temperature      Ceiling versus visibility Relative Humidity      *Climatological data      (over)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for NATRONA CO/CASPER, WYOMING It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)		

DD FORM 1 JAN 73 1473

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

WYOMING

NATRONA CO, WYOMING

CASPER, WYOMING

20. and dew point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurring tables.

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those reports or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day observations. (Selected from record-special, noon, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Each section is a brief description of the data comprising each part of the revised Uniform Summary of Surface Weather Observations and the manner of presentation. The summaries are prepared from hourly and daily observations recorded by stations operated by the U. S. Air Force and some foreign stations with similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_

STATION NO ON SUMMARY 725690		STATION NAME NATRONA COUNTY IAP/WY CASPER		LATITUDE N 42 55		LONGITUDE W 106 28		FIELD ELEV (FT) 5368		CALL SIGN CPR		WMO NUMBER	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	MT. BARD.					
	Casper Air Terminal	WBAS	Mar 50	Aug 52	N 42 55	W 106 28	5348	5323	24				
	Same	WBAS	Sep 52	Dec 67	Same	Same	Same	Same					
	Same	WBO	Jan 68	Dec 69	Same	Same	Same	Same					
	Same	WSO	Jan 70	Dec 72	Same	Same	Same	Same					
	Natrona county IAP	WSO	Jan 73	May 76	Same	Same	Same	Same					
	Same	WSO	Jun 76	Mar 82	Same	Same	Same	Same					
* May 76...lastest date NWS Stn History													
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS. ADDITIONAL EQUIPMENT. OR REASON FOR CHANGE							
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND								
	11 Mar50	Located on Control Tower	ESI		80 ft								
	30 Jan58	Located 1 Teminal Tower	SA		29 ft								
	12 Nov58	Located on Roof	ESI		33 ft								
	12 Aug64	Located on ground	F420C		20 ft								
	07 Jul75	Located on ground	F420C	F312	20 ft 41m								

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CONTINUED ON REVERSE SIDE

C PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

C Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

549  
STATION

STRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	0-23				18.8		18.8	1.6		.4		1.9	325
	3-23				16.8		16.8	1.8		.2		2.1	327
	4-23		.1		15.3		15.4	2.6		.4		2.9	317
	5-11		.1		13.2		13.3	1.9	.1	1.1		3.2	321
	12-14		.2		13.3		13.4	.9		.4		1.2	313
	15-17		.1		11.0		11.1	.6		.4		1.0	327
	18-20		.2		12.0		12.3	1.2		.4		1.6	331
	21-23		.2		15.8		15.9	1.7				1.7	323
TOTALS			.1		14.5		14.6	1.5	.2	.4		2.3	6504

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



U.S. AIR FORCE CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

569  
 STATION

WATRONA CO/CASPER WY  
 STATION NAME

73-81

YEARS

FEB  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	1-24		.1		14.3		14.3	.7		.8		1.5	746
	3-5			.4	14.1		14.5	1.6		.8		2.3	752
	6-8		.3	.1	12.1		12.4	3.7		.5		4.3	752
	9-11				10.4		10.4	3.2				3.2	748
	12-14		.4		10.2		10.5	1.2				1.2	754
	15-17		.3		9.3		9.6	1.2				1.2	751
	18-20		.3		12.1		12.4	1.1		.4		1.5	751
	21-23		.5		15.5		15.9	.4		.8		1.2	750
TOTALS			.7	.1	12.3		12.5	1.6		.4		2.1	6904

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

## WEATHER CONDITIONS

STATION

STRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	01-12		.6		14.4		14.5	1.1		1.7		2.1	319
	13-25		.2		17.8		18.1	1.5		.7		2.2	825
	26-08		.7		13.6		19.3	2.4		.7		3.2	523
	09-11		.7		16.0		16.7	2.3		.5		2.8	525
	12-14		1.5		12.2		13.5	.5		.7		1.2	825
	15-17	.1	1.4		9.6		10.8	1.2		.2	.1	1.6	831
	18-20	.1	.6		10.9		11.6	.9		1.0		1.8	822
	21-23	.1	1.0		12.1		12.9	.5		1.3		1.6	817
TOTALS		.0	.6		14.7		14.7	1.3		.8	.0	2.1	6587

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION 569 NATRONA CO/CASPER WY 73-81 APP MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02		4.2		10.7		14.1	2.8		.4		3.2	787
	03-05		3.6	.1	11.2		14.2	4.2		.5		4.7	795
	06-08		2.6	.5	10.2		13.2	6.9		1.0		7.9	796
	09-11		2.9		11.2		14.1	2.4		.1		2.5	796
	12-14	.6	4.5		10.5		13.6	1.8				1.8	793
	15-17	.3	5.8		9.2		13.4	1.3				1.3	791
	18-20	.4	4.6		9.1	.1	12.8	1.4		.1		1.5	792
	21-23	.5	4.4		10.7		13.8	.5				.5	791
TOTALS		.2	4.1	.1	10.4	.0	13.7	2.7		.3		2.9	6341

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

589  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.7	7.5		5.2		11.7	1.8		.4		2.2	826
	03-05	.2	6.0		6.4		11.2	3.5		.4		3.9	822
	06-08	.1	6.1		6.4		11.7	4.5				4.5	823
	09-11		6.1		5.8		11.3	3.4	.1			3.5	822
	12-14	2.1	7.4		3.6		10.7	3.2				3.2	814
	15-17	2.4	11.3		3.5		13.9	2.9				2.9	826
	18-21	1.5	8.7		3.6		12.0	2.7				2.7	827
	21-23	1.5	9.5		4.3		12.9	1.2				1.2	821
TOTALS		1.1	7.8		4.9		11.9	2.9	.6	.1		3.0	6581

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

FEDERAL CLIMATOLOGY BRANCH  
WAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

669  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	.8	3.1		.4		3.1	.1				.1	796
	03-05		2.0		.3	.1	2.0	.3				.3	797
	06-08		2.0		.3		2.0	.1				.1	794
	09-11		2.1		.5		2.4						794
	12-14	2.1	3.8		.3		3.8						795
	15-17	4.8	6.7				6.7						789
	18-20	1.0	3.8				3.8						793
	21-23	1.5	3.9				3.9	.1	.1			.1	795
TOTALS		1.3	3.4		.2	.0	3.5	.1	.0			.1	6753

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	.6	2.5				2.5	1.1				1.1	816
	03-05	.1	2.2				2.2	1.3				1.3	824
	06-08	.2	.9				.9	1.3	.1			1.3	820
	09-11	.4	2.2				2.2	.1	.1			.2	821
	12-14	2.4	3.7				3.7						817
	15-17	4.5	5.4			.1	5.4	.2				.2	814
	18-20	5.3	6.4				6.4	.1				.1	812
	21-23	2.1	5.6				5.6	.6				.6	821
TOTALS		2.0	3.6			.0	3.6	.6	.0			.6	6545

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

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## WEATHER CONDITIONS

**AUG**  
**MONTH**

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	0-02	.5	2.2				2.2	.1				.1	818
	03-05	.4	2.1				2.1	.5				.5	824
	06-08	.2	2.4				2.4	1.0				1.0	817
	09-11		2.8				2.8	.2				.2	808
	12-14	1.1	2.8				2.8	.1				.1	823
	15-17	2.4	5.4				5.4						817
	18-20	1.8	4.0				4.0						830
	21-23	1.8	3.5				3.5						826
TOTALS		1.0	5.2				3.2	.2				.2	6563

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CLIMAT CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## WEATHER CONDITIONS

569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-01	.4	3.4		.6		4.0	.3				.3	797
	03-05	.3	3.7		.4		4.0	1.1				1.1	792
	06-08		4.4		.6		4.6	2.5	.1			2.7	792
	09-11		3.0		.5		3.5	.9	.3			1.1	797
	12-14	.3	3.9		.3		4.2	.3				.3	790
	15-17	.5	3.4		.5		3.5						797
	18-20	.5	5.6		.4		6.0	.3				.3	761
	21-23	.3	4.5		.4		4.9						794
TOTALS		.3	4.0		.5		4.4	.7	.1			.7	6340

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

USAFETAC FORM 0-10-5 (CL. A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## WEATHER CONDITIONS

1969  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

OCT  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02		4.0		5.2		8.5	1.2				1.2	825
	03-05		2.7		5.9		8.3	1.5				1.5	818
	06-08		2.9		5.5		7.8	2.6		.2		2.8	816
	09-11		2.3		5.4		7.2	1.0	.1	.2		1.3	819
	12-14	.1	2.2		3.6		5.2	.4				.4	807
	15-17	.1	2.5		4.1		6.3	.5				.5	827
	18-20		3.6		4.1		7.4	.2				.2	822
	21-23		3.6		4.7		8.0	.6				.6	814
TOTALS		.0	3.0		4.8		7.3	1.0	.0	.1		1.1	6548

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

FEDERAL CLIMATOLOGY BRANCH  
METAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH VISIB TO VISIBLE	
NOV	00-02				9.9		9.9	2.3		1.5		3.8	
	03-05		.4	.3	11.0		11.7	2.3		.9		3.1	799
	06-08		.4	.1	10.8		11.2	2.9		.9		3.8	797
	09-11		.1		8.3		8.4	1.9		.4		2.3	793
	12-14		.5		8.6		9.0	1.0		.6		1.6	790
	15-17		.4		7.7		8.0	.9		.5		1.4	792
	18-20		.1		7.7		7.8	.4		.5		.9	797
	21-23		.1		11.0		11.1	1.6		.5		2.1	794
TOTALS			.3	.1	9.4		9.6	1.7		.7		2.4	6355

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

7.569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		.4		10.3		10.5	1.0		.5		1.5	819
	03-05				12.0		12.0	2.1		.6		2.7	816
	06-08			.1	12.1		12.3	1.7		.6		2.3	824
	09-11		.1	.4	11.9		12.2	1.9		1.0		2.9	822
	12-14		.2	.1	9.8		10.0	1.9		.2		2.2	827
	15-17		.4		7.9		8.0	1.6		.1		1.6	815
	18-20		.1		9.9		10.0	.9		.4		1.2	816
	21-23		.2		9.7		10.0	1.8		.7		2.6	814
TOTALS			.2	.1	10.5		10.6	1.6		.5		2.1	6553

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# WEATHER CONDITIONS

569 STATION NATRONA CO/CASPER WY 73-81 YEARS ALL MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		.1		14.5		14.6	1.5	.0	.4		2.0	6584
FEB			.2	.1	12.3		12.5	1.6		.4		2.1	6004
MAR		.0	.6		14.0		14.7	1.3		.8	.0	2.1	6587
APR		.2	4.1	.1	10.4	.0	13.7	2.7		.3		2.9	6341
MAY		1.1	7.8		4.9		11.9	2.9	.0	.1		3.0	6581
JUN		1.3	3.4		.2	.0	3.5	.1	.0			.1	6353
JUL		2.0	3.6			.0	3.6	.6	.0			.6	6545
AUG		1.0	3.2				3.2	.2				.2	6563
SEP		.3	4.0		.5		4.4	.7	.1			.7	6340
OCT		.0	3.7		4.8		7.3	1.0	.0	.1		1.1	6548
NOV			.3	.1	9.4		9.6	1.7		.7		2.4	6355
DEC			.2	.1	10.5		10.6	1.6		.5		2.1	6553
TOTALS		.5	2.6	.0	6.8	.0	9.1	1.3	.0	.3	.0	1.6	77354

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.

FEDERAL CLIMATOLOGY BRANCH  
 METAC  
 WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 XX **WEATHER CONDITIONS**  
 ATMOSPHERIC PHENOMENA

569 WYRONA CO/CASPER WY

50-A1

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
 FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		2.6	.2	38.3		39.1	7.8	.1	3.2	.1	10.6	961
FEB		.1	4.3	.7	41.4		43.2	12.0		4.3		14.6	876
MAR		.8	1.6		46.1	.2	49.5	12.6		4.4		15.8	988
APR		4.3	27.7	.7	36.5	.7	51.4	14.4		2.2		16.5	962
MAY		20.0	51.2	.4	11.1	4.1	54.3	13.2		.2		13.3	991
JUN		26.9	45.9		1.6	3.5	46.1	4.9				4.9	959
JUL		29.5	46.2			2.7	45.2	2.6				2.6	992
AUG		19.6	37.5		.1	.7	37.5	2.4				2.4	990
SEP		8.8	31.1	.2	5.5	.7	32.7	6.9				6.9	962
OCT		1.5	21.1	.7	16.8	.5	29.9	9.8		.7		10.3	992
NOV		.3	8.1	.8	32.4		34.7	8.3		2.1		10.4	967
DEC			5.6	.4	37.1		38.7	8.7		1.9		10.7	992
TOTALS		9.3	24.3	.3	22.2	1.1	41.9	8.6	.0	1.6	.0	9.6	11023

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

B

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945      at 0800LST  
Jan 46-May 57            at 1230GMT  
Jun 57-present          at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52   at 0030GMT  
Jul 52-May 57            at 1230GMT  
Jun 57-present            at 1200GMT



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

705890  
STATION

NATRONA CO/CASPER WY  
STATION NAME

50-81  
YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	67.9	15.3	4.1	11.1	4.3	3.7	.5	.1						23.8	961	.50	.99TRACE	
FEB	56.6	15.0	5.0	11.8	6.1	4.1	1.3							28.2	876	.55	1.01.15	
MAR	50.7	18.7	4.2	10.5	5.9	6.6	2.9	.4						30.5	992	.98	2.43.25	
APR	48.6	17.3	4.5	10.4	6.0	7.8	3.1	1.7	.5					34.1	960	1.53	3.92.20	
MAY	45.7	19.5	3.3	9.7	5.9	7.8	4.4	2.7	1.0					34.9	992	2.17	6.46.30	
JUN	53.9	19.2	4.8	7.8	4.0	5.3	3.2	1.7	.2					27.0	960	1.22	3.75.03	
JUL	54.3	20.2	4.1	7.9	3.5	5.6	2.6	.9	.3					25.0	992	1.06	3.05.11	
AUG	62.5	20.9	3.3	4.2	4.0	3.3	.9	.7	.1					16.6	992	.61	2.66.02	
SEP	67.7	11.6	3.2	6.6	3.4	5.3	1.8	.5	.3					21.1	960	.82	3.28.07	
OCT	77.1	9.9	2.9	5.8	2.7	4.7	3.0	.7	.1					20.1	992	.87	2.49TRACE	
NOV	65.3	13.0	2.2	8.5	3.9	4.9	2.0	.2						21.7	960	.65	1.30.07	
DEC	61.3	16.1	4.1	9.2	4.4	4.1	.7							22.6	992	.50	1.20.03	
ANNUAL	58.2	16.4	3.8	8.6	4.5	5.3	2.2	.8	.2					25.5	11629	11.46	X	

FORM 0-15-5 (OL A)  
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## PRECIPITATION

(FROM DAILY OBSERVATIONS)

725692 NATRONA CO/CASPER WY  
STATION STATION NAME

50-81

YEARS

### 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
50			.27	.93	.49	.53	.33	.01	1.76	.71	.13	.10	
51	.08	.10	.18	.39	.51	.75	1.33	.06	.35	.34	.09	.22	1.33
52	TRACE	.34	.47	.07	2.07	.43	.14	.26	.20	.30	.21	.02	2.07
53	.26	.28	.08	.21	.60	.63	.86	.74	.17	.08	.47	.38	.86
54	.33	.19	.95	.15	.22	.29	.15	.18	.09	.37	.12	.11	.95
55	.25	.32	.24	.55	.27	.42	.20	.31	.31	.15	.34	.42	.55
56	.14	.40	.37	.44	.53	.02	.32	.42	.03	.20	.44	.34	.53
57	.10	.04	.22	.67	.74	.40	.27	.28	.55	.55	.19	.19	.74
58	.07	.12	.98	.50	.50	.58	.33	.75	.13	.02	.35	.11	.98
59	.23	.13	.45	.52	.93	.94	.15	.23	.49	.18	.09	.10	.94
60	.19	.35	.28	.46	.22	.15	.25	.57	.12	.16	.39	.23	.57
61	.04	.14	.35	.39	.39	.24	.79	.03	.48	.48	.12	.22	.79
62	.23	.14	.19	.57	1.04	.44	.28	.07	1.09	1.90	.24	.09	1.90
63	.10	.20	.11	.54	.18	.42	.68	.10	.12	.30	.11	.12	.68
64	.22	.33	.25	1.57	1.02	.25	.53	.23	.28	.11	.20	.25	1.57
65	.27	.10	.12	.43	.84	.77	.40	.08	.42	TRACE	.06	.21	.84
66	.08	.21	.29	.49	.20	.36	.22	.57	.14	.56	.19	.16	.57
67	.10	.21	.20	.42	.39	.83	.28	.16	.60	.28	.29	.16	.83
68	.17	.18	.35	.25	.68	.64	.32	.21	.14	.28	.22	.37	.68
69	.03	.18	.75	.57	.39	1.22	.17	.58	.12	.29	.26	.07	1.22
70	.30	.12	.37	.68	.70	1.06	.30	.06	.09	.49	.50	.45	1.06
71	.07	.18	.35	1.13	1.39	.09	.05	.10	.18	.41	.28	.19	1.39
72	.53	.10	.28	.59	.20	.26	.54	.80	.19	.54	.41	.16	.80
73	.21	.26	.23	1.11	.32	.24	1.22	.18	1.46	.47	.28	.12	1.46
74	.36	.11	.20	1.82	.21	.48	.28	.77	.41	.31	.12	.07	1.82
75	.13	.27	.36	.44	.90	.21	.37	.06	.05	.50	.24	.32	.90
76	.15	.30	.16	.84	.76	.82	.68	.08	.60	.51	.04	.19	.84
77	.19	.37	.29	.21	1.13	.11	1.14	.12	.13	.20	.39	.21	1.14
78	.29	.21	.37	.37	1.96	.75	.92	.48	.16	.26	.32	.42	1.96
79	.24	.15	.40	.20	.93	.86	.61	1.35	.13	.23	.52	.15	1.35
MEAN													
S.D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

**0-00-5 (OL A)**

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

725690 WATRONA CO/CASPER WY  
STATION STATION NAME

50-81

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
50				.90	2.16	1.97	1.50	.88	.02	3.11	.74	.37	.26	
51		.27	.16	.44	1.31	1.45	1.53	3.05	.10	1.12	.88	.20	.42	10.93
52		TRACE	.75	1.56	.20	3.93	1.06	.58	.61	.25	.46	.57	.73	10.00
53		.53	1.00	.25	.94	1.60	1.07	1.52	.98	.21	.16	.72	.74	9.72
54		.45	.37	2.43	.30	.70	.62	.38	.29	.23	1.36	.25	.32	7.70
55		.59	1.01	.99	1.44	.73	2.07	.27	.81	.65	.47	1.19	1.04	11.26
56		.44	.45	.71	1.56	1.97	.03	.76	.77	.07	.28	1.30	.59	8.93
57		.42	.15	.91	2.45	3.85	1.93	1.00	1.13	1.08	2.00	.77	.43	16.12
58		.11	.38	2.27	1.95	.78	1.32	.96	1.00	.34	.07	1.06	.23	10.42
59		.58	.61	1.32	.74	1.99	1.79	.27	.23	1.99	.71	.27	.25	10.75
60		.71	.85	.42	1.06	.56	.40	.59	.57	.41	.27	1.03	.47	7.34
61		.04	.51	1.16	.95	.71	.54	1.21	.08	2.46	1.12	.56	.62	9.96
62		.85	.44	.55	.93	3.80	1.75	1.24	.25	1.14	2.49	.34	.23	14.01
63		.38	.49	.35	2.07	.80	.94	1.20	.39	.33	.33	.31	.31	7.90
64		.75	.72	.66	3.09	2.17	.59	.73	.47	.34	.23	.66	.47	10.88
65		.78	.37	.52	.96	2.64	2.47	1.16	.21	2.07	TRACE	.07	.87	12.12
66		.30	.43	.49	1.29	.30	1.12	.46	1.03	.39	1.33	.43	.57	8.14
67		.58	.65	.66	1.24	1.62	3.75	1.46	.41	1.67	1.37	1.09	.82	15.32
68		.33	.46	.92	1.18	3.35	1.86	1.02	.61	.30	.58	.56	.71	11.88
69		.38	.55	1.10	1.52	.85	2.39	.70	.78	.16	1.43	.96	.16	10.66
70		.59	.27	1.53	1.57	2.03	2.03	.73	.16	.21	1.01	1.01	.89	12.03
71		.17	.80	1.17	3.40	5.59	.17	.11	.11	.74	1.73	.61	.34	14.96
72		.99	.41	1.41	1.44	.76	.83	1.04	1.52	.37	2.04	.66	.41	11.88
73		.63	.57	.52	3.86	1.02	.66	2.26	.34	3.28	.60	.80	.55	15.09
74		.69	.42	.37	3.92	.62	.60	.75	1.00	.83	1.15	.46	.22	11.03
75		.51	.51	2.01	.97	3.88	.94	.63	.12	.11	1.01	.51	.72	11.92
76		.44	.89	.50	1.52	2.69	1.66	1.07	.31	1.15	1.21	.09	.38	11.91
77		.35	.69	1.05	1.07	1.93	.19	1.88	.34	.30	.71	.79	.71	10.01
78		.77	.75	.93	1.05	6.46	1.40	2.62	.93	.26	.40	.94	1.20	17.64
79		.81	.39	1.31	.83	2.25	1.31	1.22	2.66	.18	.50	.75	.36	12.57
MEAN														
S. D.														
TOTAL OBS														

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

**EXTREME VALUES**

(FROM DAILY OBSERVATIONS)

50-81

YEARS

[illegible]

NOYE \* (BASED ON LESS THAN FULL MONTHS)

0

USAF ETAC

FORM  
ML 64

**0-88-5 (OL A)**

2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

725690 NATRONA CO/CASPER WY  
STATION STATION NAME

52-81

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	41.2	11.8	9.5	10.6	3.8	.9	1.1	.9	.3					27.0	899	10.4	22.1	1.4
FEB	58.4	12.0	10.1	11.6	4.8	1.1	1.1	.9	.1					29.7	819	9.7	21.5	1.5
MAR	55.1	15.4	9.2	10.2	4.7	1.8	1.0	1.9	.6	.2				29.6	899	14.2	36.2	3.2
APR	63.7	11.6	8.0	8.2	3.6	1.3	1.5	1.0	.6	.5	.1			24.7	870	12.9	56.3	1.1
MAY	89.5	4.3	1.9	1.9	.6	.3	.2	.8	.2	.2				6.1	899	4.3	24.6	.0
JUN	98.6	1.1				.2								.2	870	.2	3.0	.0
JUL	100.0														930	.0	.0	.0
AUG	99.9	.1													930	TRACE	TRACE	.0
SEP	65.0	2.4	.9	1.1	.2	.2	.1							2.6	900	.8	8.8	.0
OCT	83.2	7.1	2.4	3.5	1.5	1.0	.6	.5	.1					9.7	930	4.7	13.1	.0
NOV	67.3	11.1	7.1	7.2	2.7	2.1	1.0	.9	.4	.1				21.6	900	9.8	19.9	.5
DEC	63.3	13.0	8.1	9.5	2.7	1.2	.9	1.1	.3					23.7	930	9.4	25.7	1.5
ANNUAL	77.9	7.5	4.8	5.3	2.7	.8	.6	.7	.2	.1	.0			14.6	10776	76.4		

USAFETAC FORM 0-15.3 (OLA)  
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

52-81

YEARS

### 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52							.0	.0	.0	3.5	7.3	.6	
53	5.0	5.5	2.0	2.3	1.0	.0	.0	.0	.0	TRACE	4.9	7.6	7.6
54	6.3	4.1	14.6	.6	.5	TRACE	.0	.0	TRACE	3.8	2.7	1.9	14.6
55	7.4	5.4	4.5	5.7	TRACE	.0	.0	.0	TRACE	1.9	4.3	5.9	7.4
56	2.4	7.5	3.8	4.3	2.7	.0	.0	.0	.0	.9	8.7	4.7	8.7
57	2.0	.8	3.3	6.3	TRACE	.0	.0	.0	TRACE	1.3	3.5	2.9	6.3
58	.4	2.3	11.2	5.8	.0	.0	.0	.0	TRACE	TRACE	5.5	2.0	11.2
59	2.9	2.8	6.4	7.0	.9	.0	.0	.0	1.0	2.0	1.3	2.0	7.0
60	3.5	3.5	2.7	6.9	TRACE	.0	.0	.0	.0	1.1	5.4	4.4	6.9
61	1.3	2.3	3.4	1.9	.0	.0	.0	.0	2.7	2.2	1.8	3.8	3.8
62	4.2	4.2	2.3	.6	.0	TRACE	.0	.0	.2	.0	3.0	1.0	4.2
63	2.4	2.0	2.7	2.7	.0	.0	.0	.0	.0	1.4	.7	1.8	2.7
64	4.4	4.9	4.6	13.1	TRACE	.0	.0	TRACE	.0	TRACE	3.1	3.6	13.1
65	5.2	2.2	2.7	4.4	5.8	.0	.0	.0	4.4	.0	.4	3.7	5.8
66	1.2	2.8	4.8	10.2	2.1	3.0	.0	.0	TRACE	3.5	4.9	4.2	10.2
67	2.3	2.7	2.0	2.3	5.2	.0	.0	.0	.0	3.0	3.0	3.3	5.2
68	1.5	3.0	5.4	5.9	2.2	TRACE	.0	.0	TRACE	.4	2.4	7.4	7.4
69	.9	2.1	7.8	4.0	TRACE	3.0	.0	.0	.0	4.1	3.2	.9	7.8
70	5.4	2.0	5.3	3.1	1.0	TRACE	.0	.0	.1	5.2	2.9	5.3	5.4
71	1.4	2.1	5.3	11.4	1.0	.0	.0	.0	1.4	5.6	3.3	2.1	11.4
72	9.7	1.7	3.8	5.6	.0	.0	.0	.0	.2	4.9	5.6	3.5	9.7
73	2.3	5.9	4.6	16.5	1.5	.0	.0	.0	TRACE	4.8	4.3	2.2	16.5
74	6.0	2.0	3.7	10.5	2.0	.0	.0	.0	3.0	.6	3.6	1.4	10.5
75	2.1	3.0	5.6	6.3	8.4	.0	.0	.0	TRACE	6.8	3.1	5.1	8.4
76	2.2	4.9	2.4	1.5	1.4	TRACE	.0	.0	.0	1.4	.9	3.1	4.9
77	5.2	5.2	7.8	2.0	TRACE	.0	.0	.0	.0	3.3	8.1	3.4	8.1
78	4.3	3.0	5.3	4.3	13.0	.0	.0	.0	TRACE	1.4	7.0	6.8	13.0
79	4.8	2.9	7.7	3.5	10.9	TRACE	.0	.0	.0	3.6	12.0	5.2	12.0
80	7.0	3.8	6.2	1.2	6.3	.0	.0	.0	.0	3.3	4.3	6.1	7.0
81	5.2	4.4	2.4	9.1	.2	.0	.0	.0	.0	1.8	6.2	2.3	9.1
MEAN	3.76	3.41	4.98	5.48	2.28	.21	.00	TRACE	.43	2.39	4.24	3.61	8.46
S.D.	2.258	1.538	2.822	3.926	3.469	.774	.000	.000	1.068	1.904	2.570	1.931	3.326
TOTAL OBS	899	819	899	870	899	870	930	930	900	930	900	930	10776

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

72569 NATRONA CO/CASPER WY

52-81

STATION

STATION NAME

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
52							.0	.0	.0	5.1	13.7	1.5	
53	11.8	18.5	3.2	10.5	2.6	.0	.0	.0	.0	TRACE	5.4	14.7	66.7
54	9.6	6.6	32.9	1.7	.9	TRACE	.0	.0	TRACE	8.0	3.8	5.5	69.0
55	13.2	21.5	17.9	15.3	TRACE	.0	.0	.0	TRACE	4.2	16.7	14.5	103.3
56	9.0	9.9	11.3	13.6	3.8	.0	.0	.0	.0	1.4	19.9	7.9	76.8
57	10.3	1.5	13.1	21.2	TRACE	.0	.0	.0	TRACE	1.7	10.5	6.6	64.9
58	1.4	7.3	25.9	21.0	.0	.0	.0	.0	TRACE	TRACE	12.2	4.3	72.1
59	11.8	10.6	22.1	8.9	1.1	.0	.0	.0	1.2	4.1	4.4	4.8	69.0
60	10.8	11.9	5.1	9.7	TRACE	.0	.0	.0	.0	1.6	17.3	8.4	64.8
61	1.6	7.7	8.5	4.8	.0	.0	.0	.0	6.3	5.3	7.0	11.7	52.9
62	16.2	9.7	8.0	1.1	.0	TRACE	.0	.0	.2	.0	4.5	3.2	42.9
63	10.6	5.6	5.0	10.1	.0	.0	.0	.0	.0	1.4	1.2	5.1	39.0
64	13.2	12.7	12.8	22.8	TRACE	.0	.0	TRACE	.0	TRACE	12.9	6.7	81.1
65	16.5	8.6	11.4	7.3	7.1	.0	.0	.0	8.8	.0	.5	10.0	70.2
66	5.5	6.2	9.2	17.0	2.1	3.0	.0	.0	TRACE	11.9	8.0	11.8	74.7
67	9.2	10.6	8.8	7.5	10.2	.0	.0	.0	.0	4.3	13.1	17.8	81.9
68	5.2	5.0	13.3	14.5	3.4	TRACE	.0	.0	TRACE	.7	4.9	16.4	63.4
69	2.0	6.9	13.1	12.1	TRACE	3.0	.0	.0	.0	12.5	12.0	2.7	64.3
70	9.0	4.8	22.3	10.9	1.7	TRACE	.0	.0	.2	11.2	7.4	11.9	79.4
71	3.7	11.2	14.8	24.2	2.2	.0	.0	.0	2.8	13.1	9.7	4.7	86.4
72	19.2	7.2	14.5	13.9	.0	.0	.0	.0	.2	9.8	8.1	9.1	82.0
73	9.6	11.3	10.7	56.3	1.7	.0	.0	.0	TRACE	5.9	13.2	9.6	118.3
74	14.0	8.1	7.5	19.4	2.0	.0	.0	.0	5.1	1.2	8.9	5.1	71.3
75	10.3	8.1	36.2	13.4	21.3	.0	.0	.0	TRACE	11.8	6.8	16.1	124.0
76	6.9	16.1	7.3	4.1	1.4	TRACE	.0	.0	.0	3.8	1.8	6.2	47.8
77	8.5	11.8	26.6	4.8	TRACE	.0	.0	.0	.0	4.3	18.2	16.8	91.0
78	14.2	14.6	8.0	5.4	24.6	.0	.0	.0	TRACE	3.1	17.1	25.7	112.7
79	16.3	7.3	18.6	9.2	22.7	TRACE	.0	.0	.0	3.6	16.5	8.8	103.0
80	22.1	13.5	17.3	3.7	15.7	.0	.0	.0	.0	6.1	10.0	7.9	96.3
81	9.9	7.3	5.0	10.3	.4	.0	.0	.0	.0	5.8	7.3	6.1	52.1
MEAN	10.40	9.73	14.15	12.92	4.31	.21	.00	TRACE	.83	4.73	9.77	9.39	76.58
S.D.	5.053	4.287	8.363	10.441	7.302	.774	.000	.000	2.134	4.163	5.349	5.465	21.491
TOTAL OBS	899	819	899	870	899	870	930	930	900	930	900	930	10776

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OL A)



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

50-81

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	12.2	31.3	21.9	11.6	6.5	9.2	1.5							50.5	961			
FEB	25.6	33.2	15.4	9.9	7.4	8.3	.1							41.2	876			
MAR	42.6	26.8	12.6	6.4	5.8	5.1	.6							30.5	992			
APR	73.2	13.6	4.6	3.4	1.5	2.1	1.4	.2						13.1	960			
MAY	94.2	3.3	.6	.5	.2	.7	.5							2.5	992			
JUN	99.7	.2	.1											.1	960			
JUL	100.0														992			
AUG	100.0														992			
SEP	98.1	1.3	.4	.2	.2	.1								.9	960			
OCT	89.8	4.6	2.3	1.2	.7	.8	.5							5.5	992			
NOV	52.6	20.6	10.8	5.2	4.4	5.0	1.1	.2						26.8	960			
DEC	28.3	35.8	18.2	6.8	4.4	5.4	1.0							35.9	992			
ANNUAL	68.5	14.2	7.2	3.8	2.6	3.1	.6	.0						17.2	11629			

USAFETAC FORM 0-15-5 (OL A)

OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

725692 NATRONA CO/CASPER WY

50-81

STATION

STATION NAME

YEARS

## DAILY SNOW DEPTH IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
50			3	1	7	TRACE	0	0	0	6	2	1	6
51			6	2	0	TRACE	0	0	0	TRACE	TRACE	6	6
52	2	9	6	TRACE	0	0	0	0	0	1	5	1	9
53	6	6	1	2	TRACE	0	0	0	0	0	5	7	7
54	4	2	12	TRACE	TRACE	0	0	0	TRACE	3	2	3	12
55	6	6	5	7	0	0	0	0	0	1	4	6	7
56	3	6	6	4	TRACE	0	0	0	0	0	7	5	7
57	2	1	4	5	0	0	0	0	TRACE	1	2	3	5
58	2	2	9	4	0	0	0	0	0	0	5	1	9
59	3	3	4	7	TRACE	0	0	0	TRACE	1	2	2	7
60	5	3	3	3	TRACE	0	0	0	0	TRACE	7	5	7
61	1	3	5	2	0	0	0	0	2	4	3	5	5
62	7	4	3	2	0	0	0	0	0	0	1	2	7
63	3	2	2	3	0	0	0	0	0	0	TRACE	2	3
64	7	6	5	11	0	0	0	0	0	0	6	4	11
65	5	5	4	2	6	0	0	0	6	0	TRACE	5	6
66	2	3	5	8	TRACE	0	0	0	0	0	4	6	6
67	3	4	1	2	3	0	0	0	0	2	4	4	4
68	2	3	4	7	1	0	0	0	0	0	2	7	7
69	1	2	3	2	0	1	0	0	0	0	5	1	5
70	4	3	6	2	TRACE	0	0	0	TRACE	7	1	5	7
71	4	2	5	7	TRACE	0	0	0	0	1	12	2	12
72	10	2	2	4	1	0	0	0	TRACE	4	6	4	10
73	4	6	6	20	12	0	0	0	0	4	8	2	20
74	5	3	2	5	0	0	0	0	0	TRACE	3	1	5
75	4	4	7	6	9	0	0	0	0	3	5	7	9
76	5	5	1	1	0	0	0	0	0	2	1	3	5
77	5	5	5	1	0	0	0	0	0	4	14	5	14
78	5	5	1	TRACE	6	0	0	0	0	2	8	9	9
79	7	6	4	2	10	0	0	0	0	2	14	5	14
MEAN													
S. D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM JUL 64

0-88-5 (OLA)

5

## 4

4

4

**YEARS**

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U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

( PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

\$ (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

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2GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MACPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

70569. STATION NATRONA CO/CASPER WY 73-81 YEARS JAN MONTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.5	1.1	.6	.2	.1						3.8	8.7
NNE		2.2	1.7	1.6	.4							5.8	9.4
NE	.2	1.3	1.6	.7	.1							4.0	7.9
ENE	.1	1.1	.4	.4								1.9	6.8
E	.4	1.7	.4	.1								1.8	5.9
ESE		.4	.4	.2								1.0	7.8
SE		.7	.2									1.0	5.6
SSE		.1	.1									.2	5.5
S	.1	.1	.1									.4	5.7
SSW		.1	.4	4.4	5.3	3.9	.7	.2	.1			15.2	19.4
SW	.1	.6	3.6	11.8	6.4	4.5	.9					27.9	16.1
WSW		1.6	8.3	7.8	.6	.2						18.5	10.6
W	.4	2.2	3.0	1.3	.4							7.3	8.4
WNW	.4	1.3	.9									2.6	5.6
NW	.1	1.6	1.5	.5								3.6	7.2
NNW	.5	.9	1.5	.1								2.9	6.4
VARBL													
CALM												2.1	
	2.6	16.6	25.0	29.5	13.5	8.7	1.6	.2	.1			100.0	12.2

TOTAL NUMBER OF OBSERVATIONS 823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569

NATRONA CO/CASPER WY

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.6	.7	.8	.1							3.3	8.2
NNE	.8	2.1	2.5	.8	1.1	.1						7.5	9.2
NE		.7	1.9	.2	.1							3.0	8.4
ENE	.1	1.2	.1	.1								1.6	5.2
E	.4	.9	1.0									2.2	6.2
ESE	.1	.7										.8	4.9
SE		.5										.5	4.0
SSE	.1	.4	.1									.6	5.0
S	.1	.2	.2									.6	5.8
SSW	.1	.5	.4	3.8	6.1	3.5	1.1	.4				15.7	19.1
SW	.2	.6	3.1	11.5	9.7	4.4	.7	.2				30.5	16.6
WSW	.4	1.2	7.7	7.6	.4							17.3	10.3
W	.5	2.1	3.0	1.3								6.9	7.9
WNW	.2	1.3	1.2	.2								3.0	6.8
NW	.1	1.0	1.0	.1								2.2	6.4
NNW	.2	1.1	1.0	.1								2.4	6.3
VARBL													
CALM												1.8	
	3.5	16.0	24.1	26.8	17.4	8.0	1.8	.6				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

824

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.7	.9	.1		.1						2.1	7.4
NNE	.4	2.2	1.7	2.0	.5	.1						6.9	9.4
NE	.4	1.1	1.1	.7	.1							3.4	7.8
ENE		.7	1.1	.2								2.1	7.4
E	.1	.5	.5									1.1	5.9
ESE	.2	.5	.7									1.5	6.2
SE	.1	.4										.5	4.0
SSE													
S	.1	.1										.2	3.5
SSW	.1	.4	.9	5.4	5.8	5.3	1.6	.2				19.7	19.3
SW	.2	1.1	2.8	11.8	10.3	3.9	.4					30.6	16.0
WSW	.1	1.5	8.2	7.5	.9	.5		.1				18.8	11.3
W	.4	2.1	2.3	1.2								6.0	7.6
WNW		.4	.4	.5								1.2	8.9
NW	.5	.6	.4	.1								1.6	5.5
NNW	.2	1.8	.6									2.7	5.5
VARBL													
CALM												1.5	
	3.0	14.4	21.6	29.6	17.6	10.0	2.0	.4				100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A14 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	.5	1.0	.4								2.0	8.1
NNE	.4	.9	1.2	1.8	.1							4.4	9.6
NE		1.0	1.5	.6	.5							3.5	9.9
ENE		.7	1.1	.5								2.3	8.1
E	.5	1.0	.6		.1							2.2	5.9
ESE	.4	.5	.7	.1								1.7	6.7
SE	.2	.2	.1									.6	5.0
SSE	.2	.4										.6	4.2
S	.1	.2										.4	4.3
SSW	.4	.9	.2	4.2	8.5	6.7	2.0	.5				23.3	19.9
SW	.2	.7	2.3	14.4	11.8	6.8	.9					37.2	17.1
WSW	.1	1.0	3.1	5.6	.9	.4						11.0	11.8
W	.2	1.0	2.0	1.3	.1							4.6	8.9
WNW	.2	.7	.6	.2	.1							2.0	8.1
NW	.1	.5	.1	.1		.1						1.0	7.9
NNW		1.0	1.0	.1								2.1	6.9
VARBL													
CALM												1.1	
	3.3	11.1	15.5	29.4	22.2	14.0	2.8	.5				100.0	14.5

TOTAL NUMBER OF OBSERVATIONS

819

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	1.6	.5		.1						3.7	8.1
NNE		.7	.5	2.1	.6							4.0	11.6
NE		.5	1.1	1.4								3.0	10.5
ENE	.1	.7	.5	.5								1.9	7.8
E		1.6	1.1	.5								3.2	7.3
ESE		.7	.9									1.6	7.0
SE		.4	.1									.5	5.0
SSE		.1										.1	4.0
S		.4										.4	4.7
SSW		.2	.4	4.3	8.7	7.7	1.7	.7				23.9	20.7
SW	.2	.2	1.7	9.7	14.5	7.3	1.1	.1				35.0	18.2
WSW	.1	.7	2.6	3.2	1.9	.9	.1					9.6	13.6
W		.2	1.4	1.7	1.4	.5						5.2	14.4
WNW	.2	.6	1.0	.9	.4							3.1	10.3
NW	.1	.1	.7	.2	.2							1.5	10.0
NNW		.7	1.4	.6								2.7	8.1
VARBL													
CALM												.6	
	1.0	9.6	15.0	25.7	27.7	16.5	3.0	.9				100.0	15.7

TOTAL NUMBER OF OBSERVATIONS

805

2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.6	1.3	.4	.1	.4						3.1	9.7
NNE	.1	1.3	1.8	1.9	.5	.1						5.8	10.2
NE		1.1	2.2	1.0								4.2	9.0
ENE	.2	1.7	.4	.1								2.4	5.4
E		1.2	1.6	.5								3.3	7.9
ESE		.4	.8	.2								1.5	8.3
SE		.5	.1	.1								.7	6.2
SSE		.4										.4	5.0
S	.1	.1	.2	.1								.6	6.8
SSW		.4	1.7	5.9	6.1	5.1	2.1	.6				21.8	19.2
SW		.5	4.7	12.5	8.8	3.3	1.0	.1				30.9	15.8
WSW	.1	1.5	3.5	3.9	.6	.2						9.8	10.7
W		.6	2.5	1.9	1.1	.1	.1					6.4	12.1
WNW	.1	1.1	1.0	1.0	.2							3.4	9.1
NW	.1	1.0	.5	.5								2.1	7.6
NNW	.1	1.7	1.1	.4								3.3	7.1
VARBL													
CALM												.4	
	1.3	13.9	23.5	30.4	17.4	9.2	3.1	.7				100.0	13.5

TOTAL NUMBER OF OBSERVATIONS 826

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	1.6	.8	.1							3.3	9.4
NNE		.8	1.7	1.7	.1		.1					4.5	10.2
NE	.2	1.8	1.8	.4								4.2	7.2
ENE		1.2	1.2	.6								3.0	8.2
E	.1	1.0	1.8	.8								3.7	7.8
ESE		1.0	.8	.1	.1							2.0	7.9
SE		.6										.6	4.4
SSE	.1	.2	.1									.5	5.0
S	.1	.4										.5	4.8
SSW		.2	.8	4.2	7.3	3.3	1.1	.1				17.1	18.8
SW		.7	4.8	10.4	6.4	3.3	1.1					26.6	15.5
WSW	.2	1.9	7.5	4.8	.6	.1						15.2	10.1
W	.1	2.4	4.0	1.0	.1	.1						7.7	8.9
WNW	.5	1.6	1.3									3.4	6.0
NW	.2	1.4	1.4	.1								3.3	6.8
NNW	.1	2.5	1.1	.2								4.0	5.8
VARBL												.5	
CALM													
	1.9	18.4	30.0	25.2	14.8	6.7	2.3	.1				100.0	12.0

TOTAL NUMBER OF OBSERVATIONS

830

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690

NATRONA CO/CASPER WY

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.3	1.0		.1							3.5	6.2
NNE	.2	1.3	2.1	1.8	.2							5.7	9.6
NE		.7	1.0	.5								2.2	8.1
ENE	.2	1.1	.6	.5								2.4	7.1
E	.4	1.0	.9	.2								2.4	6.7
ESE		.9	.9									1.7	6.8
SE	.1	.2	.1									.5	5.0
SSE	.2	.2										.5	3.5
S	.1	.4	.1									.6	4.8
SSW		1.0	.4	5.4	5.9	3.7	.6	.1				17.0	17.7
SW	.1	.7	3.2	9.6	7.3	3.1	1.2	.1				25.4	16.1
WSW	.2	2.0	7.8	5.3	.7							16.0	9.9
W	.4	2.3	5.5	2.1	.4							10.6	8.8
WNW	.1	1.6	.6	.2								2.6	6.7
NW	.5	1.5	.9									2.8	5.7
NNW	.7	2.8	1.2	.2								5.0	5.8
VARBL													
CALM												1.0	
	3.5	20.0	26.1	25.9	14.7	6.7	1.8	.2				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

70569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
BOUNDS (L & U)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	1.1	.5	.1	.1						3.1	8.3
NNE	.2	1.4	1.7	1.7	.4	.0	.0					5.6	9.8
NE	.1	1.0	1.5	.7	.1							3.5	8.5
ENE	.1	1.1	.7	.4								2.2	7.1
E	.2	1.0	1.0	.3	.0							2.5	6.9
ESE	.1	.6	.7	.1	.0							1.5	7.1
SE	.1	.4	.1	.0								.6	5.0
SSE	.1	.2	.0									.4	4.6
S	.1	.2	.1	.0								.5	5.2
SSW	.1	.5	.6	4.7	6.7	4.9	1.4	.4	.0			19.2	19.3
SW	.2	.7	3.3	11.5	9.4	4.6	.9	.1				30.5	16.5
WSW	.2	1.4	6.1	5.7	.8	.3	.0	.0				14.5	10.9
W	.2	1.6	3.0	1.5	.4	.1	.0					6.9	9.4
WNW	.2	1.1	.9	.4	.1							2.7	7.6
NW	.2	1.0	.8	.2	.0	.0						2.3	7.0
NNW	.2	1.6	1.1	.2								3.1	6.9
VARBL													
CALM												1.1	
	2.5	15.0	22.6	27.8	18.1	10.0	2.3	.5	.0			100.0	13.1

TOTAL NUMBER OF OBSERVATIONS

6561

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.3	.8	.5	.1							3.1	7.4
NNE	.4	1.1	2.1	1.5								5.1	8.6
NE		.5	.7	1.2	.4							2.8	10.8
ENE	.1	.1	.7	.5								1.5	8.9
E		.9	.3									1.2	5.7
ESE	.3	.4										.7	4.2
SE		.3										.3	4.5
SSE			.1									.1	10.0
S		.1	.1	.4	.1							.8	11.3
SSW	.1	.1	.9	7.2	5.0	1.9		.1				15.4	16.4
SW	.4	1.2	4.3	14.2	10.3	1.7	.5					32.8	15.0
WSW	.3	1.5	9.3	6.4	.7	.3						18.4	10.4
W	.5	2.6	3.8	1.7								8.6	8.1
WNW	.4	2.0	.9									3.4	5.6
NW	.1	1.7	1.1									3.0	6.1
NNW	.1	.9	.7	.1								1.9	6.6
VARBL													
CALM												1.1	
	3.1	14.9	25.8	34.0	16.6	3.9	.5	.1				100.0	11.9

TOTAL NUMBER OF OBSERVATIONS

745

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	.8	.7								2.8	7.6
NNE		.7	2.4	1.3								4.4	9.3
NE	.1	.7	1.7	.3								2.8	8.0
ENE		.7	.9	.3	.1							2.0	8.6
E		.3	.4	.1								.8	9.0
ESE													
SE		.4	.3									.7	6.2
SSE	.1	.1	.1									.4	5.3
S				.3								.3	11.5
SSW	.3	.3	1.5	7.0	6.8	1.6	.1					17.6	16.1
SW		.7	4.1	15.6	10.9	3.2	.3					34.7	15.7
WSW	.7	1.3	8.6	8.1	.5	.4						19.7	10.5
W	.4	1.7	3.3	1.9	.1							7.4	8.8
WNW	.1	1.2	.4	.3								2.0	6.1
NW	.3	1.2	.5	.1								2.1	5.9
NNW	.1	1.1	.4	.3								1.9	6.7
VARBL													
CALM												.5	
	2.1	11.6	25.5	36.2	18.5	5.2	.4					100.0	12.5

TOTAL NUMBER OF OBSERVATIONS 752



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569

NATRONA CO/CASPER WY

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0600-0800

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.8	1.5	.7								2.9	8.4
NNE	.4	1.2	2.1	1.1								4.8	7.9
NE	.1	.1	.9	.9								2.1	9.5
ENE	.1	.5	.3	.3	.4							1.6	10.1
E		.5	.3									.8	5.5
ESE	.1	.3	.1	.3								.8	8.0
SE	.3	.1										.4	3.3
SSE		.1										.1	6.0
S	.1	.1		.1								.4	6.7
SSW	.1	.3	1.3	7.0	7.8	1.7	.5					18.7	16.6
SW		.7	3.5	17.6	10.3	2.8	.1					35.0	15.5
WSW	.3	1.7	8.3	8.0	.8	.3						19.4	10.7
W	.1	.9	2.5	1.7	.4							5.7	9.9
WNW	.3	.7	.9	.3								2.1	7.1
NW	.1	.8	.3	.4								1.6	7.0
NNW	.1	2.0	.1	.1								2.4	5.9
VARBL													
CALM												.9	
	2.3	11.0	22.2	38.5	19.7	4.8	.7					100.0	12.7

TOTAL NUMBER OF OBSERVATIONS

748

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	.9	.7	.7	.1							2.6	8.5
NNE		.8	1.6	1.9	.1							4.4	9.9
NE	.1	.7	.5	1.1	.3							2.7	10.4
ENE	.3	.8	.5	.3	.3							2.1	8.3
E		.3	1.1	.3	.1							1.7	9.7
ESE	.1	1.1	.9									2.1	6.1
SE			.1									.1	7.0
SSE													
S	.3	.5	.3									1.1	5.3
SSW		.3	.3	5.5	11.7	7.2	.3					25.2	19.1
SW	.1	.1	1.5	13.0	15.4	6.3	.5					37.0	17.8
WSW	.1	.7	3.5	5.5	.8	.5						11.1	12.2
W	.3	1.2	.9	1.5	.9							4.8	10.7
WNW		.7	.1	.3								1.1	7.4
NW		.8	.3	.3								1.3	7.2
NNW	.4	1.1	.3	.4	.1							2.3	7.2
VARBL													
CALM												.1	
	1.9	9.9	12.6	30.6	29.9	14.1	.8					100.0	15.1

TOTAL NUMBER OF OBSERVATIONS

745

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

70569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.8	1.2	1.1	.3							3.5	9.5
NNE	.1	.5	1.3	1.7	.5	.3						4.5	11.8
NE	.1	.3	.7	1.3	.5							2.9	12.4
ENE	.1	.5		.1	.1							.9	8.3
E		1.1	1.9	.1								3.1	7.6
ESE		.5	.9		.1							1.6	8.1
SE	.1	.4	.3									.8	6.0
SSE		.3										.3	5.5
S		.3	.1	.3								.7	8.8
SSW		.3	.7	5.1	12.9	4.8	.4					24.1	18.8
SW		.7	.8	9.4	12.2	7.8	2.1					33.1	19.0
WSW	.1	.5	1.2	4.0	2.9	1.6	.3					10.6	15.9
W	.5	.8	.7	3.7	2.4	.5						8.6	13.9
WNW			.4	.7	.3	.1						1.5	13.8
NW		.5	.5	.4								1.5	8.5
NNW		.5	1.3	.4	.1							2.4	9.1
VARBL													
CALM													
	1.3	8.0	12.0	28.3	32.4	15.2	2.8					100.0	14.0

TOTAL NUMBER OF OBSERVATIONS

752

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	1.5	.5								3.2	7.8
NNE		.4	1.6	3.6	.4	.1						6.2	12.3
NE		.9	.9	2.8	.3	.1						5.1	11.7
ENE		.4	.1	.3								.8	8.8
E	.1	.8	.7	.5								2.1	7.6
ESE		.3	.8									1.1	7.3
SE			.1	.1								.3	11.0
SSE	.3	.1		.1								.5	5.5
S		.8										.8	5.0
SSW		.7	.4	7.0	7.8	4.6	.1	.1				20.6	17.8
SW	.1	.4	1.9	15.0	8.7	6.2	.9					33.2	17.0
WSW		.9	1.6	3.9	2.4	.9	.1					9.9	14.4
W		.7	2.8	3.2	.9	.4						8.0	12.4
WNW		.5	1.2	2.1	.5	.1						4.6	12.0
NW		.7	1.1	.5	.3	.1						2.7	10.6
NNW		.4	.1	.3								.8	8.3
VARBL													
CALM												.1	
	.8	9.0	14.9	40.0	21.3	12.6	1.2	.1				100.0	14.6

TOTAL NUMBER OF OBSERVATIONS 747

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.5	.9	.7								3.1	7.8
NNE	.3	1.1	2.5	2.9	.5							7.4	10.4
NE		1.5	1.3	1.7								4.5	9.0
ENE		.7	1.2	.4	.1	.1						2.5	9.2
E	.1	.9	1.1	.1								2.3	6.9
ESE		.7	.5	.1								1.3	6.8
SE		.3	.5									.8	6.5
SSE			.1									.1	7.0
S		.4		.3								.7	8.0
SSW		.5	1.1	6.3	7.8	2.5						18.2	16.9
SW	.1	.5	5.7	12.3	7.2	3.3	.4					29.7	15.0
WSW	.1	1.5	7.5	4.1	.4	.1						13.8	9.9
W	.1	2.4	3.2	2.5								8.3	8.7
WNW		1.1	1.9	.5								3.5	8.0
NW		.5	.7	.3								1.5	7.9
NNW		.7	.9	.3								1.9	8.1
VARBL													
CALM												.5	
	.8	14.2	29.3	32.6	16.0	6.1	.4					100.0	12.1

TOTAL NUMBER OF OBSERVATIONS

748

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSFEB  
MONTHALL WEATHER  
CLASS2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.9	.9	.4	.4							3.7	8.3
NNE		.8	1.7	2.3	.1							4.9	10.2
NE		.9	1.5	.9								3.3	8.9
ENE	.1	1.1	.9	.5	.3							2.9	8.6
E	.4	.3	.8									1.5	6.7
ESE		.7	.4									1.1	6.9
SE	.3	.3										.5	4.0
SSE		.1	.1									.3	6.0
S		.4	.3									.7	7.0
SSW	.1	.9	1.2	6.0	6.8	1.6						16.7	16.0
SW	.1	.8	4.1	16.7	7.3	2.4	.1					31.6	19.7
WSW	.4	1.6	7.6	5.6	1.1	.3						16.6	10.7
W		1.6	3.6	2.0	.3							7.5	9.3
WNW	.1	1.2	1.1	.7								3.1	8.1
NW	.3	1.5	.5	.3								2.5	6.3
NNW	.3	1.1	.5	.1								2.0	6.3
VARBL													
CALM												1.1	
	2.3	15.1	25.4	35.5	16.3	4.3	.1					100.0	11.9

TOTAL NUMBER OF OBSERVATIONS

799

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569 : NATRONA CO/CASPER WY  
STATION

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	1.0	.7	.1							3.1	8.2
NNE	.2	.8	1.9	2.0	.2	.1						5.2	10.1
NE	.1	.7	1.0	1.3	.2	.0						3.3	10.2
ENE	.1	.6	.6	.3	.2	.0						1.8	8.9
E	.1	.6	.8	.2	.0							1.7	7.4
ESE	.1	.5	.5	.1	.0							1.1	6.8
SE	.1	.2	.2	.0								.5	5.9
SSE	.1	.1	.1	.0								.2	6.0
S	.1	.3	.1	.2	.0							.7	7.6
SSW	.1	.4	.9	6.4	8.3	3.2	.2	.0				19.6	17.4
SW	.1	.6	3.2	14.2	10.3	4.2	.6					33.4	16.2
WSW	.3	1.2	5.9	5.7	1.2	.6	.1					14.9	11.4
W	.3	1.5	2.6	2.3	.6	.1						7.4	10.2
WNW	.1	.9	.9	.6	.1	.0						2.6	8.6
NW	.1	1.0	.6	.3	.0	.0						2.0	7.4
NNW	.1	1.0	.6	.3	.0							1.9	7.2
VARBL													
CALM												.6	
	1.8	11.7	20.9	34.5	21.3	8.3	.9	.0				100.0	13.4

TOTAL NUMBER OF OBSERVATIONS

5986

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSMAR  
MONTHALL WEATHER  
CLASS0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.3	2.2	1.3	.2	.1						7.0	8.4
NNE	.5	2.0	2.1	2.6	.6							7.7	9.6
NE	.5	2.0	1.5	1.5		.1						5.5	8.4
ENE	.5	1.1	1.0	.1								2.7	6.4
E	.4	.6	1.7	1.2	.4							4.3	9.7
ESE	.1	.9	.6									1.6	6.2
SE		.5	.1									.6	5.2
SSE	.1		.2									.4	6.0
S		.4	.1	.1								.6	6.2
SSW	.2	1.5	1.5	6.0	2.7	1.6	.1					13.6	14.4
SW	.2	1.3	4.6	11.4	3.4	.6	.1					21.7	12.9
WSW	.5	2.8	7.1	3.8	.6	.1						14.9	9.5
W	.4	2.1	3.4	1.6	.4							7.8	8.4
WNW	.1	1.6	1.0									2.7	6.1
NW	.4	2.1	.9	.1								3.4	6.1
NNW	.4	2.3	.7	.1			.2					3.6	7.2
VARBL													
CALM												1.8	
	5.0	23.3	28.7	29.8	8.3	2.6	.5					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

819



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725693  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSMAR  
MONTHALL WEATHER  
CLASS0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	1.2	1.0	.5							4.7	8.6
NNE	.2	1.6	2.9	1.1	.7	.1						6.7	9.3
NE	.6	1.5	1.7	1.2	.1							5.1	8.4
ENE		1.3	.6	.4								2.3	7.6
E	.2	1.5	1.5	1.1	.2	.1						4.6	9.2
ESE		.7	.5	.1								1.3	7.3
SE	.4	.2		.1								.7	5.0
SSE	.1	.2	.4									.7	6.2
S	.2		.1									.4	5.3
SSW		.5	1.7	5.5	4.0	.9	.4					12.9	15.3
SW	.1	1.0	5.1	13.4	3.3	1.0						23.8	13.3
WSW	.1	2.4	9.6	4.9	.4							17.4	9.4
W	.9	2.3	4.0	1.1	.7	.1						9.1	8.6
WNW	.1	1.1	.7	.1	.1							2.2	7.3
NW	.1	1.8	.7	.1								2.8	6.0
NNW	.4	1.1	.9		.5	.1						2.9	8.7
VARBL													
CALM												2.3	
	4.3	18.6	31.6	30.0	10.6	2.3	.4					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.1	.7	1.0	.9	.1						4.4	10.6
NNE	.5	1.2	2.2	1.2	.6	.1						5.9	9.8
NE	.1	1.1	2.6	.7								4.5	8.3
ENE	.1	.6	1.5	.4								2.6	8.2
E	.4	1.8	2.1	1.0	.1							5.4	8.4
ESE		.7	.2									1.0	6.3
SE													
SSE													
S	.1	.6	.5	.4								1.6	7.3
SSW		.9	1.5	4.9	4.4	1.7	.2	.1				13.7	16.1
SW		.7	4.5	13.8	6.0	1.5	.2					26.7	19.5
WSW	.5	1.8	8.2	5.5	.6							16.6	9.9
W	.9	2.7	3.1	1.2	.1							7.9	7.7
WNW	.2	.9	1.1	.4	.1	.1						2.8	8.4
NW		1.6	.4	.1	.1							2.2	6.6
NNW	.2	1.5	1.0	.2	.4							3.3	8.0
VARBL													
CALM												1.5	
	3.7	17.2	29.4	30.8	13.3	3.5	.5	.1				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	1.6	1.0	.5	.5						4.9	11.1
NNE		.5	1.3	2.2	.9		.1	.2				5.2	13.3
NE	.1	1.1	1.3	1.0	.1							3.6	9.3
ENE	.1	.9	.6	.6								2.2	8.3
E	.5	1.1	2.3	1.3	.5							5.7	9.4
ESE	.2	1.2	.7	.4								2.6	7.3
SE		.2	.4									.6	6.8
SSE	.4	.2	.2									.9	5.0
S	.1	.9	.5	.2								1.7	7.1
SSW	.1	.6	.5	4.1	6.3	3.0	1.2	.2	.2			16.4	19.1
SW		.6	1.8	8.1	11.9	6.2	.9	.2				29.8	18.1
WSW	.1	.6	3.0	5.0	1.5	.6	.2					11.1	13.3
W	.1	.7	2.3	2.8	.7	.5						7.2	12.2
WNW	.4	.2	.4	1.7	.4	.1						3.2	11.9
NW		.5	.9	.4	.1							1.8	9.4
NNW	.2	.6	1.3	.5	.2							2.9	9.0
VARBL													
CALM												.4	
	2.6	11.2	19.2	29.3	23.1	10.9	2.4	.7	.2			100.0	14.4

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSMAR  
MONTHALL WEATHER  
CLASS1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.9	1.8	1.3	.6	.2		.4				5.2	13.2
NNE	.1	.7	1.7	2.8	1.2		.1					6.7	12.5
NE		.2	1.2	.6	.1							2.2	9.6
ENE		1.0	1.7	1.3	.2							4.3	9.6
E		1.2	2.3	1.7	.2							5.5	9.5
ESE	.1	.2	.4									.7	5.8
SE	.2	.5	.5									1.2	5.9
SSE		.9	.2									1.1	8.7
S		.7	.4	1.2	.4		.1					2.8	11.8
SSW		.6	.5	3.5	5.5	2.8	1.0	.1	.1	.1		14.2	19.2
SW	.1	.6	1.3	4.3	7.7	6.0	1.7	.4	.1			22.1	19.7
WSW		.7	1.2	3.4	3.2	2.4	.6	.2				11.8	17.6
W		.1	2.2	6.3	2.4	.9	.2					12.2	18.7
WNW		.6	.9	1.9	.9	.4						4.6	13.1
NW		.1	.2	1.3								1.7	11.8
NNW		.7	1.0	1.5	.1							3.3	10.2
VARBL													
CALM												.5	
	.6	9.8	17.5	31.2	22.5	12.6	3.8	1.1	.2	.1		100.0	15.2

TOTAL NUMBER OF OBSERVATIONS

823

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	1.4	2.0	.8	.1	.2	.1				5.3	13.1
NNE	.2	.2	1.2	3.5	.8	.4						6.4	13.0
NE	.2	.5	2.9	1.8	.2							5.7	10.0
ENE		.7	1.3	.2	.1	.1						2.5	9.2
E		.5	2.0	2.8	.5							5.8	11.4
ESE		.4	1.0	.2								1.6	8.5
SE	.1	.4	.2	.1								.8	6.4
SSE	.1	.2	.1									.5	4.8
S		.5	.5	.7								.7	9.7
SSW	.2	.4	1.0	2.7	3.4	1.7	.8	.2				10.4	17.6
SW		.4	1.0	6.4	7.2	4.1	1.4					20.5	18.4
WSW	.1	.5	1.8	4.9	4.2	3.7	1.1	.2				16.6	17.8
W	.2	.8	2.3	4.6	2.9	.7	.2					11.8	13.9
WNW		.5	1.3	1.6	.7	.4						4.5	12.8
NW		.5	.7	1.3	.2							2.8	11.0
NNW		.1	1.7	1.1	.1	.1						3.1	10.8
VARBL													
CALM												.1	
	1.4	6.9	20.5	34.0	21.3	11.3	3.9	.6				100.0	14.8

TOTAL NUMBER OF OBSERVATIONS

830

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N		1.5	2.0	1.0	.9	.2	.1	.1				5.8	12.0
NNE	.1	1.2	2.9	3.4	.9	.2						8.8	11.0
NE		1.7	2.6	2.1	.4							6.7	9.7
ENE	.1	1.2	2.0	.4	.1							3.8	8.1
E	.1	1.3	3.3	2.1	.6							7.5	9.9
ESE		.6	1.5	.5								2.6	8.6
SE	.1	.1										.2	3.5
SSE	.1	.4	.2	.1								.9	7.7
S		.5	.5	.1								1.1	7.4
SSW	.1	.7	3.4	6.0	2.2	.7	.2	.1				13.6	13.5
SW	.2	1.8	4.0	7.0	4.4	1.6	.4					19.5	13.9
WSW	.1	2.2	5.6	4.5	1.8	.5	.1					15.0	11.3
W		1.7	3.6	1.8	.4							7.5	8.8
WNW	.1	1.0	.7	.2	.1	.1						2.3	8.7
NW		.6	.5									1.1	6.3
NNW	.2	.5	1.5	.5								2.7	8.5
VARBL													
CALM												.9	
	1.5	17.2	34.4	29.8	11.8	3.4	.9	.2				100.0	11.1

TOTAL NUMBER OF OBSERVATIONS

815

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.2	3.2	.9	.2	.6	.1					7.2	10.1
NNE	.1	2.1	2.1	1.8	.7	.1						7.0	9.9
NE	.1	2.2	2.0	1.5								5.8	8.2
ENE	.1	1.5	1.8	.7	.1							4.3	8.1
E	.1	1.7	2.8	1.3	.5							6.5	8.9
ESE	.1	.1	.9	.1	.2							1.5	9.3
SE		.5	.2									.7	5.7
SSE		.7										.7	4.7
S	.1	.4	.4	.1								1.0	7.0
SSW		.5	2.1	6.5	2.9	.9	.7	.1				13.7	15.0
SW	.2	1.2	4.4	7.7	3.3	1.1	.1					18.2	13.1
WSW	.6	2.9	6.3	4.3	.2	.5						14.8	9.5
W	.2	2.5	3.6	1.1	.4							7.7	8.3
WNW	.1	1.6	.7	.5								2.9	6.7
NW	.1	1.0	1.0	.2								2.3	7.2
NNW	.2	1.8	.9	.1								3.1	6.2
VARBL													
CALM												2.5	
	2.3	22.9	32.3	27.0	8.7	3.2	1.0	.1				100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 815

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725693

NATRONA CO/CASPER WY

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.3	1.4	1.8	1.2	.6	.2	.1	.1				5.6	10.8
NNE	.2	1.2	2.1	2.3	.8	.1	.0	.0				6.8	11.0
NE	.2	1.3	2.0	1.3	.1	.0						4.9	9.0
ENE	.1	1.0	1.3	.5	.1	.0						3.1	8.3
E	.2	1.2	2.3	1.6	.4	.0						5.6	9.6
ESE	.1	.6	.7	.2	.0							1.6	7.6
SE	.1	.3	.2	.0								.6	5.7
SSE	.1	.3	.2	.0								.6	5.8
S	.1	.5	.4	.4	.0		.0					1.4	8.7
SSW	.1	.7	1.5	4.9	3.9	1.7	.6	.1	.0	.0		13.6	16.3
SW	.1	1.0	3.4	9.0	5.9	2.8	.6	.1	.0			22.8	15.6
WSW	.3	1.8	5.3	4.5	1.6	1.0	.3	.1				14.8	12.1
W	.3	1.6	3.0	2.6	1.0	.3	.1					8.9	10.7
WNW	.1	.9	.9	.8	.3	.1						3.2	10.0
NW	.1	1.0	.7	.5	.1							2.3	7.9
NNW	.2	1.1	1.1	.5	.2	.0	.0					3.1	8.6
VARBL													
CALM												1.2	
	2.7	15.9	26.7	30.2	15.0	6.3	1.7	.4	.1	.0		100.0	12.2

TOTAL NUMBER OF OBSERVATIONS

6567



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

STATION

NATRONA CO/CASPER WY

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	3.1	1.9	.9								6.0	7.0
NNE	.1	2.5	3.4	1.9	.8	.1						8.9	9.6
NE	.1	1.3	2.5	.9								4.8	8.2
ENE	.1	1.3	1.5	1.0	.1							4.1	8.5
E	.1	1.9	3.6	1.4	.1							7.1	8.8
ESE		.5	.3									.8	6.3
SE		.8	.3	.1								1.1	6.3
SSE		.1	.3									.4	6.3
S	.1	.4	.1									.6	4.8
SSW	.5	1.5	2.7	2.9	1.5	.1	.1					9.4	11.3
SW	.1	.8	4.3	5.5	1.0	.4						12.1	11.5
WSW	.6	2.7	10.6	3.3	.6	.1						18.0	9.1
W	.8	3.3	2.9	1.7	1.0	.3						9.9	9.1
WNW	.5	2.5	.9	.8	.3							5.0	7.4
NW	.3	2.8	2.0									5.1	6.1
NNW	.1	2.8	1.3	.8	.1							5.1	7.5
VARBL													
CALM												1.5	
	3.7	28.3	38.6	21.1	5.6	1.0	.1					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

785

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569

NATRONA CO/CASPER WY

73-81

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLASS

HOURS (L &amp; T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.3	1.0	1.1	.1							4.8	7.6
NNE	.4	2.0	1.6	1.5	.1	.1						5.8	8.4
NE	.1	2.3	1.9	1.0	.1							5.4	7.7
ENE		1.4	.6	.6								2.6	7.9
E	.1	1.0	1.8	1.6	.3							4.8	9.3
ESE	.1	.5	.9									1.5	6.8
SE	.1	.3										.4	4.7
SSE	.1	.4										.5	4.5
S	.1	.1	.1									.4	5.7
SSW	.1	1.4	.9	2.5	1.5	.1						6.5	12.3
SW	.1	2.5	5.3	9.8	2.0	.4						20.2	11.7
WSW	.5	2.8	10.2	2.6	.5							16.6	8.7
W	.9	3.9	5.0	1.8	.4	.1						12.1	8.1
WNW	.1	3.0	1.5	.4	.3	.1	.3					5.7	8.6
NW	.4	2.1	1.6	.1								4.3	6.3
NNW	.9	2.9	1.3	.1	.4							5.5	6.6
VARBL													
CALM												2.9	
	4.4	28.8	33.8	23.3	5.7	.9	.3					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

794

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569 STATION NATRONA CO/CASPER WY

73-81

YEARS

APR

MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.1	1.4	.5	.6							4.2	8.8
NNE	.4	.6	2.5	1.5	.1							5.2	9.2
NE	.3	.9	1.9	1.6	.1							4.8	9.2
ENE	.6	1.0	.9	1.5	.1							4.2	8.6
E	.4	2.1	1.8	1.5	.3							6.1	8.6
ESE	.5	.9	.6	.6								2.7	7.3
SE	.4	.8	.1									1.3	4.9
SSE	.6	.6										1.3	4.0
S		.6	.4									1.0	5.8
SSW	.4	1.8	1.9	4.7	2.9	.5						12.1	12.8
SW	.3	1.1	4.2	10.2	3.2	.5	.1					19.6	13.2
WSW	.6	2.7	5.2	5.7	1.0	.3	.1					15.5	10.3
W	.6	3.3	2.8	1.8	.9	.3						9.6	9.3
WNW	.5	1.9	.9	.4	.3	.1						4.0	8.0
NW	.6	1.4	.9	.3	.1							3.3	6.8
NNW	.4	.9	1.1	.5	.1							3.0	8.0
VARBL													
CALM												2.1	
	7.1	21.7	26.5	30.8	9.7	1.6	.3					100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

791

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSAPR  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.1	1.0	1.3	.8							3.3	12.3
NNE		1.3	1.3	3.0	.6							6.2	11.4
NE		1.3	1.1	1.5	.4	.1						4.4	10.8
ENE		.5	1.9	1.1	.1							3.7	10.1
E		2.8	2.3	2.8	.5	.1						8.5	9.7
ESE	.1	1.9	.4	.5								2.9	6.5
SE	.3	1.5	.1									1.9	4.3
SSE		.5	.6	.1								1.3	7.8
S	.4	2.0	.9	.8	.3	.1						4.4	8.3
SSW	.1	1.1	1.0	7.1	5.7	1.6	.1					16.8	15.6
SW	.1	.4	1.6	7.1	3.9	2.3	.3					15.7	15.9
WSW		1.1	2.8	3.7	2.4	.8	.1					10.9	13.4
W	.1	.3	2.5	4.0	1.9	.8						9.6	13.7
WNW	.1	.8	.4	1.6	.4	.4	.1					3.8	13.4
NW		.6	1.4	.3	.6	.1						3.0	11.1
NNW	.1	1.0	.8	.6	.3							2.8	8.9
VARBL													
CALM												1.0	
	1.5	17.2	20.1	35.5	17.8	6.3	.6					100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

792

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	1.3	1.8	.9							4.6	11.9
NNE		.9	1.5	2.7	1.9	.3						7.2	13.0
NE		.8	.8	1.4	.5	.1						3.6	11.9
ENE		.9	1.3	1.4	.4							3.9	10.2
E		1.0	1.3	2.2	1.4	.3						6.1	12.8
ESE	.1	.5	1.7	.4								2.7	8.6
SE	.1	.5	.4	.1								1.1	6.8
SSE		.9	.8	.5								2.2	7.8
S		.8	1.3	1.0	.1	.4						3.6	11.0
SSW	.1	.3	1.5	4.7	3.0	1.3	.1					11.1	15.6
SW		.6	1.1	4.2	4.6	1.4	.6					12.6	16.7
WSW		.5	2.3	3.2	3.9	2.0	.8					12.7	16.8
W	.1	.9	2.5	3.9	4.1	.6	.3					12.5	14.4
WNW	.1	.5	1.4	2.4	1.9	1.0						7.4	14.7
NW	.1	.3	1.8	.5	.6	.1						3.4	11.2
NNW		1.0	1.7	2.0	.4	.1						5.2	10.7
VARBL													
CALM												.3	
	.8	10.9	22.5	32.4	23.8	7.6	1.8					100.0	13.7

TOTAL NUMBER OF OBSERVATIONS

787

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	2.3	1.3	.4	.1						5.2	9.8
NNE		.6	2.2	4.4	2.8	.1						10.2	13.5
NE	.1	.6	1.1	2.4	.1	.1						4.6	11.3
ENE		.4	.8	1.4	.4							2.9	11.3
E	.1	.6	1.7	3.3	2.0	.3						8.0	13.3
ESE		.9	.8	.6	.4	.1						2.8	10.7
SE	.1	.9	.6	.5								2.2	7.5
SSE		.3	1.5	1.0	.3							3.0	10.5
S		.1	.9	.4	.1	.1	.1					1.7	13.2
SSW		.6	1.5	2.0	2.9	1.1		.1				8.4	15.6
SW		.6	2.2	4.1	3.6	1.0	.5					11.9	15.2
WSW	.1	.4	1.5	3.7	2.9	2.5	.3					11.4	16.5
W	.1	1.0	2.4	3.8	3.3	.6	.4	.4				12.1	14.8
WNW		.5	.8	2.3	1.3	.5						5.3	14.3
NW		1.0	1.4	1.4	1.1	.5						5.5	12.8
NNW		.5	1.5	1.4	.9							4.3	11.7
VARBL													
CALM												.5	
	.9	10.0	23.0	34.1	22.5	7.2	1.3	.5				100.0	13.6

TOTAL NUMBER OF OBSERVATIONS

787

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	.9	1.9	1.0	.8	.1						4.8	10.9
NNE	.3	1.4	3.0	4.7	.9	.1						10.4	11.4
NE		1.0	2.8	1.8	.6							6.2	10.0
ENE		1.3	1.6	1.6								4.6	9.4
E		1.4	4.3	4.8	1.3	.1						11.9	11.1
ESE	.1	1.0	1.3	.6	.1	.4						3.5	10.0
SE		.8	1.0	.1								1.9	7.5
SSE	.1	1.1	1.0	.1								2.4	6.2
S	.4	1.4	1.3	.6	.1							3.8	7.7
SSW		1.6	2.7	3.3	1.6	.4	.1					9.7	12.1
SW	.1	1.4	2.5	3.4	1.1		.1					8.7	11.6
WSW	.4	1.6	3.9	3.0	1.1	.5						10.6	10.9
W	.1	1.9	3.2	1.8	.8	.3						8.0	9.9
WNW	.3	1.0	1.1	1.3	.3	.1	.1					4.2	10.4
NW		1.5	1.6	1.6								4.8	8.9
NNW		.9	1.5	1.0	.4							3.8	10.2
VARBL													
CALM												.6	
	1.9	20.3	34.8	30.9	9.1	2.0	.4					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 790

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.3	3.1	1.9	1.3	.4							6.9	7.9
NNE	.4	2.7	3.9	3.1	.9	.1						11.1	10.1
NE	.1	2.8	2.3	1.5	.1							6.9	8.1
ENE	.1	1.4	3.8	1.4								6.8	8.9
E		1.4	3.2	3.6	.1							8.3	10.3
ESE	.1	1.3	1.4	.5								3.3	7.6
SE	.1	.3	.3	.1								.8	7.0
SSE		1.1	.4	.3								1.8	6.6
S	.1	.3	.9	.4		.1						1.8	9.8
SSW		.9	2.8	3.4	1.1	.3						8.5	12.1
SW		.8	4.3	4.5	1.3	.1						11.0	11.8
WSW	.3	3.4	6.6	1.1	.3							11.7	8.0
W	.5	3.4	4.3	1.1	.3	.1						9.8	7.9
WNW	.5	1.3	1.1	.5	.1							3.6	7.8
NW	.1	1.7	.6	.1								2.5	6.5
NNW		1.3	1.0	.8	.1							3.2	8.5
VARBL													
CALM												2.2	
	2.7	27.0	39.0	23.7	4.7	.8						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 785



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSAPR  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.5	1.6	1.1	.5	.0						5.0	9.3
NNE	.2	1.5	2.4	2.9	1.0	.1						8.1	11.0
NE	.1	1.4	1.8	1.5	.3	.0						5.1	9.5
ENE	.1	1.0	1.6	1.3	.1							4.1	9.2
E	.1	1.5	2.5	2.6	.7	.1						7.6	10.6
ESE	.1	.9	.9	.4	.1	.1						2.5	8.3
SE	.1	.7	.3	.1								1.3	6.2
SSE	.1	.6	.6	.3	.0							1.6	7.4
S	.1	.7	.7	.4	.1	.1	.0					2.2	9.0
SSW	.2	1.2	1.9	3.8	2.6	.7	.1	.0				10.3	13.6
SW	.1	1.0	3.2	6.1	2.6	.8	.2					14.0	13.5
WSW	.3	1.9	5.4	3.3	1.6	.8	.2					13.4	11.4
W	.4	2.3	3.2	2.5	1.6	.4	.1	.0				10.4	11.1
WNW	.3	1.4	1.0	1.2	.6	.3	.1					4.9	10.9
NW	.2	1.4	1.4	.5	.3	.1						4.0	8.8
NNW	.2	1.4	1.3	.9	.3	.0						4.1	9.0
VARBL													
CALM												1.4	
	2.9	20.5	29.8	29.0	12.4	3.4	.6	.1				100.0	10.8

TOTAL NUMBER OF OBSERVATIONS 6311

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.0	3.0	1.2	.1							7.8	7.9
NNE	.4	2.5	1.8	1.8	.4							6.9	8.6
NE	.4	2.7	2.7	.8								6.5	7.0
ENE	.5	1.5	1.7	1.8								5.5	8.5
E		2.3	2.8	1.6	.2							6.9	9.0
ESE	.2	.8	1.1	.5								2.7	7.8
SE		1.0	.1									1.1	5.4
SSE		.5										.5	5.8
S	.1	.4	.6	.6								1.7	8.9
SSW	.2	.7	1.5	2.3	.5	.4						5.6	11.8
SW	.1	1.6	4.8	3.8	.7	.1						11.2	10.0
WSW	.2	4.4	7.2	1.7	.1							13.6	8.1
W	1.0	4.7	4.6	1.3		.1						11.8	7.2
WNW	.2	2.4	1.9	.1								4.7	6.4
NW		2.5	1.5	.1								4.1	6.1
NNW		4.4	1.9	.2	.1							6.7	6.6
VARBL													
CALM												2.9	
	3.8	35.4	37.2	17.9	2.2	.4						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 825

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	3.5	2.8	.6								7.7	6.6
NNE	.4	3.2	2.2	2.2	.6							8.5	8.8
NE	.1	2.0	2.0	.9								4.9	7.5
ENE	.5	1.1	1.0	.9	.1							3.5	8.2
E	.6	1.1	1.3	.9	.4							4.3	8.5
ESE		.2	.6									.9	7.4
SE	.1	.6	.1	.1								1.0	6.3
SSE	.2	.2	.1									.6	4.0
S	.1		.4	.1	.1							.7	10.2
SSW	.2	1.2	2.0	2.9	.6	.2						7.2	11.3
SW	.2	1.1	7.3	4.6	.6							13.9	10.2
WSW	.5	4.4	10.6	2.1	.1							17.7	8.0
W	.6	4.2	5.1	1.3								11.2	7.4
WNW	.2	3.3	1.2	.2								5.0	6.3
NW	.2	3.9	1.0	.2								5.4	5.7
NNW	.1	3.3	1.2									4.6	6.1
VARBL													
CALM												2.8	
	5.0	33.3	38.9	17.1	2.6	.2						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569C  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.8	1.3	.4	.1							5.1	6.3
NNE	.6	1.9	1.9	2.7	.1							7.3	8.9
NE	.2	1.5	1.0	1.2	.1							4.0	8.3
ENE	.5	1.5	1.0	1.6	.5							5.0	9.1
E	.6	1.9	1.3	1.8	.4	.2						6.3	9.3
ESE	.4	.9	.2	.1								1.6	5.2
SE	.4	1.6	.1									2.1	4.6
SSE	.1	1.6	.7									2.4	5.3
S	.4	.6	.2	.1	.1	.1						1.6	8.2
SSW	.2	.7	1.9	5.5	3.7	.5	.2					12.8	14.1
SW	.5	1.6	4.1	10.1	2.9	.4						19.6	12.2
WSW	.5	2.9	5.7	2.8	1.2	.2						13.4	9.5
W	.1	2.8	1.8	2.7	.1							7.6	8.6
WNW	.4	1.3	1.1	.4								3.2	6.5
NW	.5	1.6	.7	.4								3.2	6.3
NNW	.5	1.5	.2		.1							2.3	5.5
VARBL													
CALM												2.6	
	6.3	26.7	23.6	29.7	9.4	1.5	.2					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS

821

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSMAY  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	1.8	1.0	.1							4.5	8.1
NNE	.2	.7	1.0	3.1	.2							5.3	11.0
NE	.2	1.2	1.1	1.8	.1							4.5	9.5
ENE	.1	1.5	1.2	.9	.4	.1						4.2	9.6
E	.2	1.6	2.7	1.8	1.1	.2						7.7	10.3
ESE	.2	1.1	.9	.4	.2	.2						3.1	9.2
SE	.1	1.8	.6									2.6	5.5
SSE		2.1	.4	.1								2.6	6.1
S		1.5	1.0	.6								3.1	7.7
SSW		.9	1.5	5.6	3.7	.9	.1	.1				12.7	15.0
SW	.2	.7	3.4	8.2	4.8	2.3	.5	.2				20.4	15.2
WSW	.1	1.5	2.9	4.0	2.2	1.6	.1					12.5	13.7
W	.2	.6	2.7	3.5	.6	1.0						8.7	12.6
WNW		.1	1.3	.9	.2							2.6	11.0
NW		.6	.7	.7	.5							2.6	10.7
NNW	.1	.5	1.3	.5	.1							2.6	8.6
VARBL													
CALM												.7	
	2.1	17.8	24.5	33.1	14.3	6.3	.7	.4				100.0	12.0

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	2.5	2.3	.5							5.8	11.1
NNE		.9	1.0	2.2	.2							4.3	10.6
NE		.9	1.8	1.5	.5							4.7	10.5
ENE		.6	2.5	1.4	.5							4.9	10.6
E	.1	1.2	2.5	1.8	1.6	.4						7.6	12.0
ESE		1.0	2.0	.7	.4	.2						4.3	10.3
SE	.2	1.1	.6									2.0	5.8
SSE		1.0		.2								1.2	6.3
S	.1	1.0	1.2	.7	.4							3.4	9.2
SSW	.2	.7	1.1	2.3	1.5	.6	.2	.1				6.9	14.6
SW		1.0	1.5	5.3	2.8	2.0	.1					12.7	15.0
WSW	.1	1.2	1.7	4.4	3.3	2.1	.9	.1				13.9	16.1
W		1.1	3.2	5.7	2.6	1.4	1.0					14.9	14.6
WNW		.9	1.8	2.0	.7	.2	.1					5.8	11.8
NW	.1	.9	.5	1.6	.7	.5						4.3	12.8
NNW	.1	.4	1.0	.7	.9							3.1	11.6
VARBL													
CALM												.1	
	1.2	14.2	24.9	33.0	16.6	7.4	2.3	.2				100.0	12.9

TOTAL NUMBER OF OBSERVATIONS

812

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER

1500-1700  
HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	1.8	3.3	.5							6.7	10.9
NNE		.5	1.6	2.3	.7	.2						5.3	12.4
NE		.7	1.8	1.7	.1							4.4	10.2
ENE		.9	1.3	2.9	.9							6.0	11.9
E	.1	1.5	2.9	3.3	2.2	.2						10.2	12.0
ESE	.2	.2	1.8	.5	1.0		.2					4.0	12.6
SE		.4	.4	.6								1.3	9.6
SSE		.9	1.9	.1								2.9	8.0
S		1.7	1.9	.6	.4	.1						4.0	9.9
SSW		.4	1.3	2.3	1.7	.9						6.6	14.6
SW		.4	1.1	3.5	2.4	1.5	.5					9.4	16.5
WSW	.1	.6	2.1	2.4	1.7	1.5	.4					8.7	15.5
W		.6	1.9	3.9	2.6	.9	.7	.2				10.8	16.1
WNW	.1	.4	1.5	2.7	.7	.5	.2					6.1	13.7
NW	.1	.4	1.8	2.9	1.3	.1	.2					6.9	13.4
NNW	.1	.9	1.5	2.6	1.0	.1	.1					6.2	12.2
VARBL													
CALM												.5	
	.9	10.6	26.7	35.6	17.1	6.0	2.4	.2				100.0	13.2

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.8	2.0	1.8	.4	.2	.1					6.6	10.3
NNE	.1	1.6	3.7	2.9	1.2	.6						10.2	11.4
NE	.1	1.2	3.1	1.6	.1							6.1	9.3
ENE		1.1	2.8	3.3	.2	.1						7.6	10.5
E	.1	1.2	5.0	4.0	.9	.2						11.5	11.0
ESE	.1	.6	2.2	1.6	.4							4.9	10.2
SE	.1	1.1	1.1	.5								2.8	8.0
SSE		1.6	.9	.1								2.6	6.2
S		1.1	2.0	.2								3.3	7.6
SSW		1.0	2.2	2.0	.9							6.0	10.9
SW		1.0	2.6	1.3	1.3	.7	.1					7.1	13.0
WSW	.1	2.4	1.8	2.8	.5	.2						8.0	10.3
W	.2	2.1	1.7	2.6	1.8	.6	.1					9.2	12.3
WNW		.2	.9	2.1	.5	.4						4.0	13.2
NW		.7	1.6	1.2	.2	.1						3.9	10.6
NNW	.4	1.7	1.6	1.3	.2	.2						5.5	9.3
VARBL													
CALM												.7	
	1.6	20.6	35.0	29.5	8.7	3.5	.4					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

817



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.8	2.2	.7		.1						4.9	8.1
NNE	.5	2.2	3.0	2.4	.9							9.0	9.4
NE		1.6	2.8	1.5								5.9	8.8
ENE		1.5	5.2	2.6								9.3	8.9
E	.2	3.0	5.1	2.0	1.3							11.7	9.4
ESE	.2	1.8	1.0	1.1	.1							5.1	8.1
SE	.2	1.3	.7	.1								2.4	6.0
SSE		.7	.5	.2								1.5	7.9
S	.1	1.5	1.3	.5	.2							3.7	8.3
SSW	.5	1.7	2.3	1.5	.4	.1						6.5	9.1
SW	.1	2.4	3.2	1.7	.6	.2						8.3	9.6
WSW	.4	3.4	4.5	1.5								9.8	7.8
W	1.0	2.9	4.0	.9	.5							9.3	7.7
WNW	.1	1.2	1.2	.4	.2							3.2	8.3
NW	.2	1.1	1.5	.2	.1							3.2	7.7
NNW	.4	1.6	1.3	.2	.1							3.7	6.6
VARBL													
CALM												2.8	
	4.0	29.9	40.9	17.4	4.5	.5						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 820

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.7	2.2	1.4	.2	.0	.0					6.1	8.7
NNE	.3	1.7	2.0	2.5	.5	.1						7.1	10.0
NE	.1	1.5	2.0	1.4	.1							5.1	8.8
ENE	.2	1.2	2.1	1.9	.3	.0						5.7	9.7
E	.3	1.7	3.0	2.2	1.0	.2						8.3	10.4
ESE	.2	.8	1.3	.6	.3	.1	.0					3.3	9.4
SE	.2	1.1	.5	.2								1.9	6.4
SSE	.0	1.1	.6	.1								1.8	6.5
S	.1	.9	1.1	.4	.2	.0						2.7	8.7
SSW	.2	.9	1.7	3.1	1.6	.4	.1	.0				8.0	13.1
SW	.2	1.2	3.5	4.8	2.0	.9	.2	.0				12.8	12.9
WSW	.3	2.6	4.6	2.7	1.1	.7	.2	.0				12.2	10.9
W	.4	2.4	3.1	2.7	1.0	.5	.2	.0				10.4	11.0
WNW	.1	1.2	1.4	1.1	.3	.1	.0					4.3	9.9
NW	.2	1.5	1.2	.9	.4	.1	.0					4.2	9.5
NNW	.2	1.8	1.3	.7	.3	.0	.0					4.3	8.5
VARBL													
CALM												1.6	
	3.1	23.6	31.5	26.7	9.4	3.2	.8	.1				100.0	10.3

TOTAL NUMBER OF OBSERVATIONS

6556

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690

NATRONA CO/CASPER WY

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.0	2.9	.9								7.3	6.9
NNE	.4	3.5	2.8	.9								7.6	7.1
NE	.1	3.3	2.8	.9								7.1	7.3
ENE	.1	1.9	2.9	.4								5.3	6.9
E		3.1	2.6	2.0	.1							7.9	8.4
ESE	.3	.8	.6									1.6	6.0
SE		.6	.9									1.5	6.7
SSE	.1	.5	.3									.9	6.0
S	.1	.8	.5	.1								1.5	7.0
SSW	.1	2.1	2.5	1.0	.4							6.2	8.4
SW	.3	1.0	4.0	1.1	.5	.1						7.1	9.3
WSW	.5	2.6	9.3	1.1	.1							13.7	7.9
W	.4	3.4	5.7	.9	.1	.1						10.6	7.6
WNW	.5	3.0	1.8	.1								5.4	5.9
NW	.3	2.5	2.4		.1							5.3	6.5
NNW	.5	4.4	3.1	.4								8.4	6.2
VARBL													
CALM												2.6	
	4.2	36.6	45.1	9.8	1.4	.3						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

794

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.5	2.0	.3								6.0	6.3
NNE	.4	3.5	1.8	.5								6.2	6.3
NE	.4	2.0	1.1	.9								4.4	7.5
ENE	.1	.9	1.0	.3								2.3	6.8
E	.4	1.5	1.3	.8	.4							4.3	8.4
ESE		.3	.1	.3								.6	8.4
SE		.6	.3									.9	6.0
SSE	.1	.1	.1									.4	5.7
S	.4	.5	.5	.4								1.8	7.4
SSW	.4	1.1	1.3	1.9	.5							5.2	9.9
SW	.1	1.8	4.2	3.1	.5	.4						10.1	10.1
WSW	.5	4.4	13.0	1.4								19.3	7.8
W	.6	7.1	5.2	1.8	.1							14.7	7.0
WNW	.3	4.0	1.5	.1								5.9	6.0
NW	.3	3.9	1.4									5.5	5.8
NNW	.5	4.5	2.5	.1								7.7	6.0
VARBL													
CALM												4.8	
	4.7	39.8	37.2	11.7	1.5	.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

794

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.8	1.1	.4								4.8	6.1
NNE	.4	1.1	.6	.1	.3							2.5	7.1
NE	.5	1.3	1.0	.5								3.3	6.3
ENE	.1	1.1	.8	.4								2.4	7.3
E	.3	2.4	2.4	.8	.5							6.3	8.1
ESE	.8	1.1	.6	.5								3.0	6.3
SE	.1	1.4										1.5	4.7
SSE	.3	.9	.4									1.5	5.1
S	.6	1.0	.4	.3								2.3	5.9
SSW	.3	1.6	2.4	5.8	1.9	.3						12.3	12.4
SW	.4	2.2	5.2	9.8	2.3	.4						20.2	11.8
WSW	1.4	3.3	7.9	3.3		.1						16.0	8.3
W	.5	3.4	2.8	1.9	.9	.1						9.6	9.0
WNW	.4	3.6	1.0	.5								5.5	6.2
NW	.1	2.0	.8	.3								3.2	6.4
NNW	.3	1.9	1.1	.1								3.4	6.3
VARBL													
CALM												2.0	
	6.9	31.2	28.6	24.6	5.8	.9						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

788

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.5		.5	.1							2.4	6.8
NNE	.1	1.3	.4	.9								2.7	8.6
NE	.1	1.5	1.3	.5								3.4	7.4
ENE	.1	1.0	1.1	.4	.3							2.9	8.5
E	.5	2.1	2.8	.9	.1	.1						6.6	7.9
ESE	.1	.9	.8	.3								2.0	6.9
SE		2.1	.6									2.8	5.7
SSE		2.3	.1									2.4	5.5
S	.5	1.5	1.5	.4	.3							4.2	7.4
SSW		1.8	2.7	6.6	3.5	.9						15.4	13.4
SW	.6	1.0	4.3	9.1	3.7	1.0	.1					19.8	13.4
WSW	.3	.6	3.4	5.3	1.9	.8	.1					12.4	13.4
W	.1	1.9	3.5	3.3	2.4	.5						11.8	12.1
WNW	.4	.9	1.3	1.4	.9							4.8	10.5
NW	.1	1.5	.6	.6								2.9	7.4
NNW	.4	1.0	.9	.5	.1	.1						3.0	8.6
VARBL													
CALM												.5	
	3.7	23.0	25.3	30.6	13.3	3.4	.3					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

791

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.3	.6	.9	.9	.4							3.0	9.9
NNE		.5	1.8	1.8		.1						4.2	10.3
NE		.9	1.6	.9	.1	.3						3.8	10.3
ENE		1.4	.8	.8								2.9	7.8
E	.1	1.3	2.0	1.9	.5							5.8	10.0
ESE	.1	.8	1.1	.5								2.5	8.0
SE		1.1	.5	.3								1.9	6.9
SSE	.3	2.0	1.0									3.3	5.8
S	.3	1.4	.6	.9	.3							3.4	8.2
SSW	.3	.8	1.9	3.5	1.9	.6						9.0	13.3
SW		.9	2.9	3.3	2.5	2.4	.5					12.5	15.6
WSW		1.3	3.0	6.2	3.5	1.5	.1					15.7	14.4
W		2.0	1.9	8.6	3.8	1.4						17.7	14.0
WNW		1.0	1.9	2.4	1.1	.3						6.7	12.1
NW	.3	.5	.8	1.4	.6	.1						3.7	11.9
NNW		.5	1.4	1.1	.9		.1					4.0	12.6
VARBL													
CALM													
	1.5	16.9	24.1	34.3	15.7	6.7	.8					100.0	12.4

TOTAL NUMBER OF OBSERVATIONS

792

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.8	2.3	1.9	.3		.1					5.3	11.1
NNE		.9	1.1	2.5	1.0							5.6	11.7
NE	.1	.5	1.4	1.9	.6	.1						4.7	11.5
ENE	.1	.5	1.3	.5	.1							2.5	9.1
E	.3	1.0	1.5	3.8	.6							7.2	11.1
ESE		.6	.8	1.3	.4	.1						3.2	11.9
SE		.5	.8	.8	.4	.1						2.5	11.0
SSE		.4	1.3	.3	.1							2.0	9.0
S	.1	1.0	.9	1.0	.5	.1						3.7	10.7
SSW	.4	1.5	1.0	1.9	1.5	1.0	.3					7.6	13.8
SW		1.3	.6	5.1	2.3	1.0	.1					10.4	14.7
WSW	.1	.6	2.0	3.8	3.6	1.3						11.4	14.9
W		1.1	3.2	4.6	2.8	2.5						14.2	14.5
WNW		.5	1.5	3.6	1.8	.1	.1					7.6	13.6
NW		.3	1.7	2.8	.5		.1					5.3	12.7
NNW	.3		2.3	2.9	.6							6.1	11.7
VARBL													
CALM												.4	
	1.4	11.6	23.6	38.6	17.2	6.5	.8					100.0	12.8

TOTAL NUMBER OF OBSERVATIONS

787



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.6	3.3	2.0	1.1	.4						8.5	10.9
NNE	.1	1.6	2.4	3.4	.8		.1					8.5	10.8
NE	.1	1.3	2.3	3.2	.4							7.2	10.4
ENE	.1	1.5	1.9	1.6								5.2	8.9
E		1.6	2.9	7.5	1.0	.1						13.2	11.9
ESE	.1	.4	2.7	2.3	.3							5.7	10.4
SE	.3	.6	1.3	.6								2.8	7.7
SSE		1.3	1.1	.1								2.5	6.8
S	.3	.4	.9	.5	.3							2.3	9.2
SSW	.1	1.0	1.4	2.7	.9	.1						6.2	11.4
SW		.3	2.3	2.0	.8	.3	.1					5.7	12.5
WSW	.1	1.0	2.9	3.8	.9	.4	.3					9.4	12.1
W	.1	1.3	3.4	3.4	1.1	.3						9.6	11.4
WNW		1.6	1.6	.8	.4							4.4	9.3
NW	.1	.9	1.1	1.0	.4	.3						3.8	10.8
NNW	.1	1.3	2.2	.5	.3							4.3	8.2
VARBL													
CALM												.8	
	1.6	17.7	33.7	35.4	8.5	1.8	.5					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 790

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569"  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	2.8	1.1		.3						6.8	8.2
NNE	.1	2.4	4.4	1.9	.3							9.1	8.8
NE	.1	2.8	4.6	1.6	.3							9.4	8.3
ENE		1.5	4.3	2.4	.1							8.3	8.9
E	.4	3.5	5.9	4.0	.6							14.5	9.1
ESE	.1	.5	1.5	1.0	.1							3.3	9.3
SE	.3	1.3	.3									1.8	5.3
SSE		1.4	.3									1.6	5.6
S		2.0	.6	.4								3.0	6.5
SSW	.1	1.3	2.5	1.5	.3							5.7	9.6
SW	.3	2.1	3.7	2.0	.4	.1						8.6	9.3
WSW	.3	3.5	4.2	.8	.5							9.2	7.9
W	.1	3.4	3.5	.4	.4							7.8	7.7
WNW	.1	1.0	1.1									2.3	6.6
NW		1.4	1.0	.1								2.5	6.6
NNW	.3	1.4	2.0	1.1								4.8	8.2
VARBL													
CALM												1.1	
	2.8	31.6	42.7	18.5	2.9	.4						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

791

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690

NATRONA CO/CASPER WY

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.0	1.9	1.0	.2	.1	.0					5.5	8.4
NNE	.2	1.9	1.9	1.5	.3	.0	.0					5.8	8.9
NE	.2	1.7	2.0	1.3	.2	.0						5.4	8.7
ENE	.1	1.2	1.8	.8	.1							4.0	8.2
E	.2	2.1	2.7	2.7	.5	.0						8.2	9.6
ESE	.2	.7	1.0	.8	.1	.0						2.8	8.9
SE	.1	1.0	.6	.2	.0	.0						2.0	7.0
SSE	.1	1.1	.6	.0	.0							1.8	6.3
S	.3	1.1	.7	.5	.2	.0						2.8	8.0
SSW	.2	1.4	2.0	3.1	1.4	.4	.0					8.4	12.0
SW	.2	1.3	3.4	4.4	1.6	.7	.1					11.8	12.4
WSW	.4	2.2	5.7	3.2	1.3	.5	.1					13.4	10.6
W	.2	3.0	3.7	3.1	1.5	.6						12.0	10.8
WNW	.2	2.0	1.5	1.1	.5	.0	.0					5.3	9.2
NW	.1	1.6	1.2	.8	.2	.0	.0					4.0	8.6
NNW	.3	1.9	1.9	.9	.2	.0	.0					5.2	8.2
VARBL													
CALM												1.5	
	3.3	26.1	32.5	25.4	8.3	2.5	.3					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS

6327

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	5.8	2.7	1.1	.1							10.1	6.8
NNE		2.2	2.6	.6								5.4	7.2
NE	.1	2.0	2.8									4.9	6.7
ENE	.1	1.1	1.1	.5								2.8	7.5
E	.4	2.2	2.5	1.7								6.8	8.4
ESE	.4	.6	1.1									2.1	6.4
SE	.2	.4	.4	.2								1.2	7.3
SSE	.1	.7	.6	.2								1.7	7.0
S		.5	1.1	.7								2.3	9.2
SSW	.2	1.6	2.3	3.4	1.7	.1						9.5	11.5
SW	.5	2.1	4.3	2.1								9.0	8.4
WSW	.2	4.4	5.4	.6								10.7	7.0
W	.7	4.7	4.4	.2								10.1	6.6
WNW		4.3	2.0	.2								6.5	6.2
NW	.1	3.7	1.7	.1								5.7	6.3
NNW	.6	4.4	1.7	.4								7.1	5.9
VARBL													
CALM												3.9	
	4.2	40.8	36.8	12.3	1.8	.1						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 812

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSJUL  
MONTHALL WEATHER  
CLASS0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	4.3	1.3	.6								6.8	6.0
NNE	.2	3.4	2.8	.7								7.2	7.0
NE	.4	1.0	1.1									2.4	6.6
ENE		1.2	.6	.1								1.9	6.3
E		1.7	.9	.5								3.0	7.1
ESE	.1	.2	.1	.1								.6	7.2
SE	.1	.6	.6									1.3	5.9
SSE	.1	.1	.1									.4	4.7
S		.2	.6	.6								1.5	9.3
SSW	.2	2.1	3.0	2.8	.4							8.5	9.6
SW	.7	3.2	3.9	3.4	.1							11.3	8.6
WSW	.6	6.3	10.8	1.2								19.0	7.3
W	1.0	6.1	5.2									12.3	6.1
WNW	.4	4.0	1.7									6.1	5.6
NW	.5	5.3	1.8	.1								7.4	5.7
NNW	.2	3.6	2.6									6.4	6.0
VARBL													
CALM												3.9	
	5.2	43.0	37.2	10.2	.5							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

823

AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/U41 SBI-AD-E850 200 NL

UNCLASSIFIED

**SBI-AD-E850 200**

NL

20. 6

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSJUL  
MONTHALL WEATHER  
CLASS0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.2	.9	.5								4.2	6.1
NNE	.4	2.5	2.0	.4								5.1	6.5
NE	.2	2.0	1.2	.6								4.0	7.1
ENE	.2	1.6	.5	.1								2.5	5.8
E	.4	2.0	1.6	.9	.1							4.9	7.8
ESE	.4	1.7	.5	.2								2.8	6.1
SE	.4	.5	.2	.4								1.5	6.9
SSE	.5	.6										1.1	4.1
S	.5	.9	.7	.4	.1							2.6	7.4
SSW	.4	1.1	3.2	7.7	2.6							15.0	12.2
SW	.5	2.7	7.4	7.4	1.6	.4						19.9	10.7
WSW	.4	3.3	8.3	2.1								14.1	8.1
W	1.0	4.8	3.2	1.0								9.9	6.5
WNW	.5	1.6	1.0	.1								3.2	5.7
NW	.5	1.8	.6	.1								3.1	5.6
NNW	.5	2.2	.6	.1								3.4	5.3
VARBL													
CALM												2.8	
	7.2	31.4	31.9	21.9	4.4	.4						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSJUL  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	.9	.4								2.3	7.4
NNE		2.1	1.5	.6	.1							4.3	7.6
NE	.1	1.3	2.0	.9								4.3	7.9
ENE	.2	1.2	1.8	.5								3.8	7.8
E	.1	2.8	2.0	2.2	.1							7.2	8.4
ESE	.1	1.6	.9	.1								2.7	6.3
SE	.2	1.7	.9									2.8	5.9
SSE	.1	1.2	1.1									2.4	6.1
S	.2	2.4	1.7	1.2	.1							5.7	8.0
SSW	.4	2.1	2.6	11.1	3.3	.5						19.9	13.2
SW	.1	.7	4.5	11.4	3.1	.2						20.0	12.8
WSW		2.1	3.8	2.6	1.5	.1						10.0	10.8
W	.1	2.0	3.1	1.0	.2	.1						6.5	8.6
WNW		1.0	1.3	.9	.2							3.4	9.0
NW	.1	.9	1.0		.2							2.2	7.9
NNW	.1	.9	.9	.1								2.0	6.4
VARBL													
CALM												.5	
	2.2	24.9	29.7	32.8	8.9	1.0						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS

819



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.6	2.1	.4	.2							4.3	7.9
NNE	.6	1.2	2.6	1.1								5.5	8.0
NE	.1	1.5	1.7	.6								3.9	7.5
ENE		.9	1.7	.6	.1							3.3	9.2
E	.2	1.5	3.3	2.1	.4	.1						7.6	9.5
ESE	.1	.9	2.0	.6								3.6	8.1
SE	.1	1.3	1.2	.5								3.2	7.3
SSE	.1	1.1	1.2	.5								2.9	7.7
S		1.2	1.6	.6	.4	.1						3.9	9.5
SSW	.2	1.2	4.7	2.7	1.1	.1						10.0	10.6
SW	.1	1.7	3.2	4.7	2.5	.5	.1					12.7	12.6
WSW		.7	3.4	4.7	2.0	.2	.1					11.2	12.5
W	.2	2.0	3.8	4.5	2.2	.5	.1					13.4	12.1
WNW	.1	1.5	1.8	1.6	.5	.1						5.6	10.1
NW	.2	.5	2.1	1.5	.4							4.7	10.2
NNW		1.0	2.8		.1							3.9	7.9
VARBL													
CALM												.2	
	2.3	19.7	39.2	26.6	9.8	1.7	.4					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	2.7	3.0	.4	.1						7.6	10.3
NNE		1.5	1.4	2.3	.5	.4						6.2	11.6
NE	.1	1.4	1.2	2.1	.2	.1		.1				5.2	10.2
ENE	.1	.5	1.1	1.4	.1							3.2	9.8
E	.1	1.1	2.8	4.2	1.5	.1						9.9	11.9
ESE		.9	2.0	1.8								4.7	9.7
SE	.1	.6	1.0	1.4	.2							3.3	10.3
SSE	.4	1.1	1.7	.7	.5	.1						4.6	9.6
S	.2	1.2	.9	1.4	.5							4.2	9.8
SSW	.1	.7	1.8	2.5	1.5	.1						6.8	12.0
SW		.7	1.7	3.7	.7	.1						7.0	12.5
WSW	.1	.6	2.7	4.2	1.6	.4						9.6	12.6
W		1.0	3.5	4.9	2.0	.2	.2					11.8	12.6
WNW	.1	.7	1.5	1.2	.7							4.3	11.0
NW	.1	.7	2.5	2.3	.2							5.9	10.4
NNW		.7	2.8	1.5	.1	.1						5.3	10.0
VARBL													
CALM												.4	
	1.8	14.8	31.3	38.6	10.9	1.8	.2	.1				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

811

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725693  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.1	3.3	1.7	.1							7.5	8.8
NNE	.1	1.9	3.5	4.7	1.1							11.2	10.8
NE	.1	1.2	4.1	1.9								7.3	9.1
ENE	.1	.6	2.0	2.0	.4							5.1	10.3
E		1.2	5.4	6.8	.9	.4						14.7	11.3
ESE	.1	1.5	4.4	1.6		.1						7.8	9.1
SE	.5	.9	1.4	1.0								3.7	7.9
SSE	.1	1.2	2.1	.7	.2							4.4	8.8
S	.1	.6	.9	1.5	.5							3.6	10.7
SSW	.1	1.0	1.7	2.6	1.2	.2						6.9	11.9
SW		.6	2.2	2.2	.6	.1						5.8	11.4
WSW	.4	1.4	2.7	2.2	.2	.1						7.0	9.6
W		1.2	2.0	2.0	.9	.1						6.2	10.9
WNW		.6	1.1	.6	.4							2.7	10.0
NW	.1	.7	1.1	.6								2.6	8.4
NNW	.1	.5	1.0	1.0	.4							3.0	10.3
VARBL													
CALM												.4	
	2.2	17.3	38.9	33.1	6.9	1.1						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLIM

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.0	2.9	1.2	.4							6.6	8.7
NNE	.2	3.1	3.5	1.3	.2							8.4	8.0
NE	.4	2.4	4.4	.6								7.8	7.3
ENE	.1	2.2	4.4	.9								7.6	7.8
E	.4	2.6	7.0	4.0	.2							14.2	9.2
ESE		1.6	2.6	1.2								5.4	8.4
SE	.1	1.3	.7	.1								2.3	6.9
SSE	.1	2.1	1.2									3.4	6.1
S		.2	1.2	1.0	.1	.1						2.7	10.8
SSW		1.1	3.5	2.4	.7	.4						8.2	11.1
SW	.1	1.5	3.7	.7	.1	.1						6.2	8.7
WSW	.6	2.2	3.5	1.2	.1							7.7	7.9
W	.5	2.7	3.3	.6								7.1	7.3
WNW	.1	.9	1.2	.7	.1	.1						3.2	9.1
NW	.5	.7	1.5	.5								3.2	7.4
NNW		1.7	2.2	.7		.1						4.8	8.0
VARBL													
CALM												1.3	
	3.3	28.2	46.9	17.3	2.1	.9						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 819

2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.5	2.1	1.1	.2	.0						6.2	7.9
NNE	.2	2.2	2.5	1.5	.2	.0		.0				6.7	8.6
NE	.2	1.6	2.3	.8	.0	.0						5.0	7.9
ENE	.1	1.2	1.7	.8	.1							3.8	8.3
E	.2	1.9	3.2	2.8	.4	.1						8.5	9.7
ESE	.2	1.1	1.7	.7		.0						3.7	8.2
SE	.2	.9	.8	.4	.0							2.4	7.6
SSE	.2	1.0	1.0	.3	.1	.0						2.6	7.6
S	.1	.9	1.1	.9	.2	.0						3.3	9.3
SSW	.2	1.4	2.9	4.4	1.6	.2						10.6	11.8
SW	.3	1.7	3.9	4.4	1.1	.2	.0					11.5	11.0
WSW	.3	2.6	5.1	2.3	.7	.1	.0					11.2	9.2
W	.4	3.0	3.6	1.8	.7	.1	.0					9.7	9.0
WNW	.2	1.8	1.5	.7	.2	.0						4.4	8.1
NW	.3	1.8	1.5	.7	.1							4.3	7.7
NNW	.2	1.9	1.8	.5	.1	.0						4.5	7.3
VARBL													
CALM												1.7	
	3.6	27.5	36.5	24.1	5.7	.9	.1	.0				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 6525

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		5.4	2.6	.2								8.2	6.2
NNE	.1	3.5	2.4	.4								6.5	6.6
NE	.6	1.3	3.2	.5								5.6	7.3
ENE	.2	1.3	1.3	.2								3.2	6.8
E		1.8	2.3	.5								4.6	7.4
ESE		.6	.4									1.0	6.4
SE	.2	.7	.4									1.3	5.5
SSE	.1	.1		.1								.4	6.7
S	.1	.5	1.0	.2	.1							2.0	8.5
SSW	.2	.7	2.2	3.8	.5	.1						7.6	11.2
SW	.7	2.1	5.0	2.4	.1							10.4	8.5
WSW		4.3	8.9	.6								13.8	7.5
W	.4	5.4	4.8	.7								11.2	6.7
WNW	.2	4.9	2.3									7.5	6.0
NW	.2	3.1	2.9	.2								6.5	6.8
NNW	.6	4.4	3.2	.1								8.3	6.2
VARBL													
CALM												2.0	
	3.9	40.2	42.9	10.1	.7	.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

818

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLAS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.2	1.6	.4								5.7	6.2
NNE	.2	2.2	1.3	.1								3.9	6.2
NE	.2	1.5	1.0									2.7	5.9
ENE	.6	.8	1.6	.4								3.4	7.1
E	.2	1.2	1.3	.2								3.0	7.0
ESE	.1	.5	.6	.2								1.5	7.5
SE		.4	.1									.5	6.0
SSE		.4										.4	5.0
S	.1	.4	.7									1.2	6.2
SSW	.1	2.3	2.1	2.7	.8							8.0	10.1
SW	.5	2.9	6.1	4.1	.1							13.7	8.9
WSW	.5	5.5	11.4	1.1								18.4	7.6
W	1.2	5.5	5.9	.1								12.7	6.3
WNW	.6	4.9	1.6									7.0	5.5
NW	.2	5.0	2.2									7.4	5.9
NNW	.5	3.5	2.1	.1								6.2	5.9
VARBL													
CALM												4.2	
	5.8	39.9	39.6	9.5	1.0							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 824

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.8	.9	.1	.1							3.3	6.5
NNE	.6	1.6	2.2	.6								5.0	7.1
NE	.4	.6	1.0	.1								2.1	6.7
ENE	.2	.9	.5	.1								1.7	6.1
E	.6	2.1	.9	1.2								4.8	7.2
ESE		.9	.4	.1								1.3	6.4
SE	.1	.5										.6	4.2
SSE	.1	.7	.1									1.0	4.5
S	.7	1.2	.5	.1								2.6	5.5
SSW	.9	1.1	2.9	4.3	1.2							10.4	11.1
SW	.4	3.8	5.8	9.2	1.0	.2						20.4	10.7
WSW	.5	3.9	9.9	3.3	.1							17.8	8.5
W	.8	7.0	3.1	.7								11.4	6.3
WNW	.6	3.4	1.2	.1								5.4	5.6
NW	.5	3.3	1.6	.1								5.5	5.6
NNW	.6	2.7	.6									3.2	5.1
VARBL													
CALM												3.4	
	7.2	34.8	31.5	20.2	2.5	.2						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 815



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.4	2.0	.5								4.2	7.5
NNE	.1	1.2	.9	1.1								3.4	8.7
NE	.1	1.1	1.4	.9								3.5	7.9
ENE		1.1	1.5	.4								3.0	7.8
E	.4	2.0	1.9	1.1	.1							5.5	8.1
ESE	.1	1.1	.5	.2								2.0	7.0
SE	.1	1.7	.4									2.2	5.2
SSE	.1	1.9	.2									2.2	5.1
S	.1	2.7	1.9	.7	.4							5.8	7.8
SSW	.2	1.9	3.9	7.7	3.4	.4						17.4	12.8
SW	.2	1.2	7.6	9.2	4.0	1.0						23.3	12.6
WSW	.1	1.2	3.6	3.5	1.1	.4	.2					10.2	11.7
W	.2	2.2	3.1	3.4	.6	.1						9.7	10.1
WNW		1.2	.7	.7								2.7	8.3
NW	.1	1.1	1.0	.5								2.7	7.5
NNW	.4	.4	.5	.1								1.4	6.2
VARBL													
CALM												.7	
	2.9	23.6	31.0	30.1	9.6	1.9	.2					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

804

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	2.2	1.2	.1							5.3	8.5
NNE	.1	1.5	2.3	1.7	.1							5.3	9.2
NE	.1	1.5	1.3	.9								3.8	8.0
ENE		.9	1.1	.7								2.7	9.0
E	.4	1.1	3.3	1.2								6.0	8.3
ESE	.1	.7	1.3	.4								2.6	7.3
SE		1.3	1.1	.4								2.8	7.4
SSE		1.2	1.1	.2								2.6	7.1
S	.2	1.2	1.1	1.2	.2							4.0	8.8
SSW		1.5	2.3	4.3	1.8	.5						10.4	12.6
SW	.1	1.6	2.2	7.0	4.3	.9	.2					16.2	14.4
WSW	.5	.4	2.6	5.9	3.1	1.3	.1					13.8	14.3
W	.1	1.6	2.7	5.4	1.7	.6	.1					12.2	12.8
WNW	.2	.6	1.3	2.2	.7		.1					5.3	12.2
NW		.4	2.0	1.2	.1							3.7	10.5
NNW		1.5	1.5	.5								3.4	7.5
VARBL													
CALM												.1	
	2.1	17.9	29.4	34.3	12.2	3.3	.6					100.0	11.4

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.1	2.9	2.5	.9	.2						7.7	11.2
NNE	.1	1.1	2.9	2.9	1.2	.1						8.5	11.2
NE	.2	.6	1.3	2.1	.2							4.5	10.1
ENE		.9	2.2	1.6	.1							4.8	9.7
E	.2	.5	1.8	3.2	.2							6.0	10.8
ESE	.2	.6	1.3	1.2								3.4	9.1
SE	.2	.7	1.0	1.0	.1							3.1	9.0
SSE		.1	.4	.1								.6	7.8
S	.1	.6	1.0	1.1	.2	.2						3.3	10.6
SSW		.5	2.7	3.8	2.2	.7						9.9	13.6
SW	.1	1.1	1.5	4.3	2.6	1.2						10.8	14.3
WSW	.1	.4	.9	4.4	1.7	2.2	.1					9.8	16.3
W		.6	1.6	5.5	2.7	.7	.1					11.3	14.5
WNW		.4	1.8	2.5	.4							5.0	11.2
NW	.1	.5	1.5	2.7	.7	.2						5.8	12.0
NNW		1.1	1.7	2.1	.2							5.1	9.8
VARBL													
CALM												.4	
	1.7	10.8	26.6	40.9	13.6	5.8	.2					100.0	12.3

TOTAL NUMBER OF OBSERVATIONS

816

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.5	4.0	2.2	.5	.2						9.8	9.3
NNE	.1	2.1	3.9	2.4	1.0	.1						9.6	10.0
NE		1.5	1.7	2.5	.1							5.8	9.9
ENE	.1	1.6	2.4	2.2	.4	.1						6.8	9.8
E	.1	2.7	4.8	5.5	.6							13.7	10.1
ESE		1.1	1.8	1.8	.2	.1						5.1	10.0
SE	.2	1.2	.4	.4								2.2	6.8
SSE	.1	1.2	.5	.1	.1							2.1	7.1
S	.1	.5	1.6	.8	.1							3.2	9.0
SSW	.1	.8	2.3	2.5	.7	.1						6.7	11.4
SW		1.8	2.9	2.3	.5	.4						7.9	10.6
WSW		1.0	2.7	2.7	.5	.4						7.2	11.2
W	.2	1.3	2.2	2.2	.6							6.5	10.1
WNW		.5	1.5	1.3	.5							3.8	11.0
NW		1.1	1.8	1.3								4.2	9.2
NNW	.1	1.1	1.7	.7	.4	.1		.1				4.2	10.1
VARBL													
CALM												1.3	
	1.7	21.9	36.1	31.0	6.2	1.6		.1				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

825

8  
2  
C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725697 STATION NATRONA CO/CASPER WY 73-81 YEARS AUG MONTH  
STATION NAME CLASS 2100-2300 HOURS (L.S.T.)  
ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	3.2	2.1	1.2	.6							7.3	8.2
NNE	.2	3.3	4.0	1.0								8.5	7.2
NE	.1	4.5	4.1	1.1	.2							10.1	7.6
ENE	.2	2.7	4.0	1.8								8.7	8.1
E		2.9	5.8	1.8	.5							11.1	8.8
ESE	.2	1.5	1.6	.6								3.9	7.3
SE	.1	.9	.7	.2								1.9	7.1
SSE	.5	1.6	.4									2.4	4.9
S	.2	.5	.6	.2	.2							1.8	8.7
SSW		1.3	2.7	1.8	1.0	.2						7.0	10.9
SW	.5	1.8	4.7	1.3	.5							8.9	8.4
WSW	.4	2.2	5.8	.9	.1							9.4	7.9
W	.2	3.3	3.4	.9	.1							7.9	7.5
WNW	.1	1.8	.4	.1	.2	.1						2.8	7.3
NW	.1	1.9	1.6									3.6	6.4
NNW		1.6	1.0	.5								3.0	7.2
VARBL													
CALM												1.6	
	3.3	34.9	42.9	13.5	3.5	.4						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.5	2.3	1.0	.3	.1						6.4	8.2
NNE	.2	2.0	2.5	1.3	.3	.0						6.3	8.5
NE	.2	1.6	1.9	1.0	.1							4.8	8.1
ENE	.2	1.3	1.8	.9	.1	.0						4.3	8.4
E	.2	1.8	2.8	1.8	.2							6.8	8.9
ESE	.1	.9	1.0	.6	.0	.0						2.6	8.1
SE	.1	.9	.5	.2	.0							1.8	6.9
SSE	.1	.9	.3	.1	.0							1.5	6.0
S	.2	.9	1.0	.6	.2	.0						3.0	8.3
SSW	.2	1.3	2.6	3.9	1.5	.3						9.7	11.9
SW	.3	2.0	4.5	5.0	1.6	.5	.0					13.9	11.9
WSW	.3	2.4	5.7	2.8	.8	.5	.1					12.5	10.2
W	.4	3.4	3.3	2.4	.7	.2	.0					10.4	9.3
WNW	.2	2.2	1.4	.9	.2	.0	.0					4.9	8.1
NW	.2	2.0	1.8	.8	.1	.0						4.9	7.8
NNW	.3	1.9	1.5	.5	.1	.0		.0				4.4	7.3
VARBL													
CALM												1.7	
	3.6	28.0	35.0	23.7	6.1	1.7	.1	.0				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

6588

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.6	2.6	.5								7.9	6.4
NNE	.8	3.1	2.3	2.1	.1							8.4	7.8
NE		1.5	.8	.6								2.9	7.3
ENE	.1	.6	.8	.3								1.8	6.9
E	.3	.8	.5	.6								2.1	7.5
ESE		.5		.6								1.1	8.9
SE	.1	.1										.3	4.5
SSE	.5	.1										.6	3.2
S	.3	.6	.4	.5	.1							1.9	8.7
SSW	.4	.6	1.0	2.3								4.3	10.2
SW		2.4	5.3	2.6	.1							10.4	8.8
WSW	.8	3.3	10.2	1.9	.3							16.3	7.8
W	1.1	6.8	5.8	.5		.1						14.3	6.4
WNW	1.0	4.6	3.0									8.7	5.8
NW	.9	4.0	3.1			.1						8.2	6.1
NNW	.6	4.9	1.8	.3	.1							7.7	6.1
VARBL													
CALM												3.1	
	6.9	38.7	37.4	12.8	.8	.3						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.0	1.1	.4								5.1	6.3
NNE	.4	2.1	1.6	1.1	.3							5.6	8.1
NE	.3	.5	.9	.5								2.1	8.4
ENE		.5	.1									.6	5.8
E	.1	.4	.5	.4								1.4	8.5
ESE		.3	.3	.1								.6	7.8
SE	.1	.1	.1									.4	5.0
SSE		.3			.1							.4	8.7
S	.5	.4	.1	.4								1.4	6.5
SSW	.1	1.4	1.5	2.9	.1							6.1	9.4
SW	.5	2.5	6.3	3.8	.1							13.3	9.0
WSW	.9	3.4	14.8	2.9	.1							22.1	8.4
W	1.4	6.2	7.8	.4		.1						15.9	6.6
WNW	1.0	4.4	1.9	.1								7.5	5.5
NW	.8	4.2	1.8	.3								7.0	5.5
NNW	.9	4.4	.9	.4								6.6	5.7
VARBL													
CALM												4.0	
	7.5	34.1	39.8	13.7	.8	.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

791



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	.4	.1								2.4	5.2
NNE	.6	1.6	2.0	1.0	.1							5.5	7.9
NE	.3	2.0	1.0	1.1								4.4	7.5
ENE	.4	.4	.8	.8								2.3	8.2
E	.4	1.1	.4	.1								2.0	5.5
ESE	.5	1.0	.1									1.6	4.4
SE	.4	.6										1.0	3.8
SSE	.4	.4	.1									.9	4.3
S	.6	.8	1.0									2.4	5.8
SSW	.3	1.3	1.9	3.8	1.1	.3						8.6	11.8
SW	.6	2.5	7.0	8.6	2.3	.3						21.3	10.9
WSW	1.1	3.4	12.7	3.7	.3							21.2	8.5
W	1.1	4.8	4.6	1.5								12.1	7.0
WNW	.6	2.7	.6	.1								4.1	5.1
NW	.8	2.5	.8	.3								4.3	5.4
NNW	.6	1.3	.9									2.8	5.3
VARBL													
CALM												3.0	
	9.4	27.8	34.3	21.2	3.8	.5						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

788

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	1.5	.6	.1							3.1	8.7
NNE	.1	.6	3.3	2.3								6.3	9.8
NE	.3	.5	1.4	.9								3.0	8.5
ENE	.4	.6	1.5	.3								2.8	7.4
E	.3	1.8	1.1	.4	.3							3.8	7.6
ESE	.8	1.0	.6	.1								2.5	5.4
SE	.3	1.9	.6									2.8	5.4
SSE	.3	1.1	.3									1.6	5.3
S	.4	2.0	1.1	.6	.1							4.3	7.2
SSW	.1	.9	3.0	8.7	2.9	.5						16.1	13.3
SW	.3	.8	7.0	11.4	5.5	1.8						26.8	13.7
WSW	.3	1.1	4.4	4.3	1.3	.8						12.1	11.8
W	.3	1.3	2.9	2.6	1.0	.4						8.4	11.3
WNW	.3	1.0	.3	.6	.5	.1						2.8	10.4
NW		1.0	.3	.1								1.4	7.1
NNW		.4	1.0	.3								1.6	8.0
VARBL													
CALM												.8	
	4.0	16.6	30.3	33.2	11.7	3.5						100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

794

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1200-1800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.9	.4	.6	.5		.1					2.9	10.3
NNE	.1	2.2	1.8	3.2	1.0	.1						8.4	10.9
NE		1.5	1.9	.4								3.8	7.2
ENE		1.4	1.4	.3								3.1	7.1
E		1.8	1.9	.8								4.5	7.9
ESE	.1	.8	.4	.4								1.7	7.3
SE	.3	1.0	.4	.3								1.9	6.7
SSE	.4	1.7	.4									2.4	5.3
S	.3	1.3	1.3	.9	.4	.1						4.2	9.4
SSW		1.2	2.6	4.3	.8	.1						9.0	11.3
SW		1.3	3.8	4.7	3.8	.8	.1					14.6	13.6
WSW	.1	2.2	4.2	4.7	2.9	1.5	.6					16.4	13.7
W	.3	.9	3.3	5.4	1.5	1.4						12.8	13.3
WNW	.1	1.0	1.9	3.5	.5	.3						7.3	11.4
NW	.1	.6	1.5	1.4								3.7	9.4
NNW	.1	1.5	1.0	.4	.1							3.2	7.6
VARBL													
CALM												.1	
	2.3	21.2	28.3	31.2	11.4	4.3	.9					100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

782

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSSEP  
MONTHALL WEATHER  
CLASS1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	2.5	.8	.3							5.0	8.6
NNE		1.9	2.5	3.8	1.8							9.9	11.5
NE	.4	.8	1.5	1.1								3.8	8.9
ENE	.1	1.6	1.3	.4								3.4	7.0
E	.3	1.6	2.5	3.5	.3							8.2	10.0
ESE		.5	.8	.4								1.6	8.4
SE	.4	.8	.1	.1	.1							1.5	6.3
SSE		1.0	1.1									2.1	7.1
S	.1	1.0	1.6	.6	.1							3.5	8.7
SSW	.1	.9	2.3	1.9	1.0	.3						6.4	11.6
SW	.1	.5	2.5	3.9	2.1	.9	.4					10.4	14.1
WSW	.1	1.0	3.1	4.6	2.0	1.1	.1					12.2	13.5
W	.3	1.9	3.1	4.8	1.9	.6						12.6	12.0
WNW	.4	.8	2.5	2.6	1.0	.1	.3					7.7	11.4
NW	.1	1.1	3.0	2.3	.1	.1						6.8	10.1
NNW	.3	1.1	1.8	1.4								4.5	8.8
VARBL													
CALM												.4	
	2.8	17.8	32.3	32.2	10.7	3.1	.8					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.8	2.2	.4	.1							4.9	7.6
NNE	.1	3.3	4.9	3.2	.8							12.3	9.5
NE	.3	2.2	3.6	1.0								7.1	7.8
ENE	.1	1.5	2.9	1.2								5.8	8.2
E		1.8	6.2	3.1	.3							11.3	9.3
ESE	.3	1.2	2.3	.6								4.4	7.6
SE	.1	2.1	.8									2.9	5.7
SSE	.1	2.1	.5									2.7	5.5
S	.5	1.7	1.3	.5	.3							4.2	7.5
SSW	.1	1.2	1.5	1.4	.5	.1						4.9	10.4
SW	.1	2.8	3.7	1.0	.3	.4						8.3	8.9
WSW	.3	3.1	5.0	1.3	.4	.4						10.4	9.0
W	.3	3.1	3.6	1.3	.3	.1						8.6	8.8
WNW	.1	1.0	1.4	.9	.1							3.6	8.8
NW	.1	1.3	1.2	.5	.1	.1	.1					3.5	9.2
NNW		.6	3.2	.3								4.1	7.8
VARBL													
CALM												1.2	
	2.9	30.6	48.2	16.7	3.1	1.2	.1					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

780

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLIM

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.0	3.3	.4	.4							7.4	7.3
NNE	.1	4.7	3.9	1.8	.5	.1						11.1	8.3
NE	.1	3.3	3.5	1.0								7.9	7.5
ENE	.4	2.0	3.2	.8								6.3	7.4
E	.1	2.4	3.7	.5	.1							6.8	7.5
ESE	.3	.5	1.0									1.8	6.1
SE		.5	.3									.8	6.0
SSE	.1	.3										.4	4.0
S		1.1	.6	.9								2.6	8.7
SSW	.4	1.0	1.3	1.5	.3							4.4	9.3
SW	.1	1.3	3.3	2.5	.3	.1						7.6	10.0
WSW	.8	4.3	7.2	.6	.4							13.2	7.5
W	1.3	4.7	4.0	1.0	.1							11.1	6.8
WNW	.8	3.3	.9	.3	.1							5.3	6.0
NW	.5	3.3	2.6	.3								6.7	6.3
NNW	.1	2.6	.9	.5								4.2	6.5
VARBL													
CALM												2.4	
	5.4	38.2	39.6	12.0	2.1	.3						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

793

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.1	1.8	.5	.2		.0					4.9	7.4
NNE	.3	2.5	2.8	2.3	.6	.0						8.4	9.3
NE	.2	1.5	1.8	.8								4.4	7.8
ENE	.2	1.1	1.5	.5								3.2	7.5
E	.2	1.5	2.1	1.2	.1							5.0	8.5
ESE	.2	.7	.7	.3								1.9	6.9
SE	.2	.9	.3	.0	.0							1.4	5.6
SSE	.2	.9	.3	.0	.0							1.4	5.6
S	.3	1.1	.9	.6	.1	.0						3.1	8.0
SSW	.2	1.0	1.9	3.4	.8	.2						7.5	11.5
SW	.2	1.8	4.9	4.8	1.8	.5	.1					14.1	11.6
WSW	.5	2.7	7.7	3.0	.9	.5	.1					15.5	9.8
W	.7	3.7	4.4	2.2	.6	.3						12.0	8.8
WNW	.5	2.4	1.6	1.0	.3	.1	.0					5.9	8.0
NW	.4	2.3	1.8	.6	.0	.0	.0					5.2	7.2
NNW	.3	2.1	1.4	.4	.0							4.3	6.8
VARBL													
CALM												1.9	
	5.2	28.1	35.8	21.6	5.6	1.7	.2					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

6322

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

735690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSOCT  
MONTHALL WEATHER  
CLASS0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.8	1.3	.6	.1							5.0	6.9
NNE	.4	1.7	3.2	1.1	.1							6.5	8.0
NE		.9	1.7	.5								3.0	8.4
ENE	.5	1.3	1.0									2.8	5.6
E	.4	1.2	.5	.5								2.6	6.7
ESE	.1	.4	.1	.1								.7	6.2
SE	.1	.2										.4	4.0
SSE		.1	.2									.4	7.0
S		.4	.1	.1								.6	6.6
SSW	.1	.5	1.1	3.2	1.8							6.7	13.0
SW	.2	1.5	7.3	10.0	2.1	.1	.5					21.7	11.9
WSW	.6	4.9	10.0	3.4	.1							19.0	8.2
W	1.1	3.3	5.7	1.1	.2	.1						11.6	7.6
WNW	.6	3.5	.9	.1								5.1	5.4
NW	.2	3.8	2.1	.2								6.3	6.2
NNW	.2	3.4	1.2	.1								5.0	6.1
VARBL													
CALM												2.6	
	4.8	29.9	36.5	21.1	4.5	.2	.5					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
SOURCE - LST

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	.7	.6								3.8	6.1
NNE	.4	3.2	3.1	1.0								7.6	7.2
NE	.1	1.0	1.7	.2								3.1	7.5
ENE	.2	.6	1.0									1.8	6.7
E	.1	1.1	.2	.6	.2							2.3	8.7
ESE	.1	.2	.2									.6	6.4
SE	.1	.2	.1									.5	5.3
SSE	.1	.2										.4	3.7
S	.1	.2	.2	.1								.7	6.7
SSW	.1	.7	1.7	3.7	1.1	.4						7.7	12.7
SW	.2	2.8	8.2	13.0	2.0	.2						26.4	11.2
WSW	.2	5.3	10.3	4.0	.4	.1						20.3	8.7
W	.7	4.9	3.7	1.5	.5							11.3	7.5
WNW	.2	2.9	1.3	.2								4.8	6.1
NW	.4	2.4	.6									3.4	5.1
NNW	.1	2.6	.4	.2								3.3	5.7
VARBL													
CALM												2.0	
	4.2	30.2	33.5	25.2	4.2	.7						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

817

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.1	1.2	1.0								5.2	7.0
NNE	1.0	1.5	2.6	.6								5.7	6.9
NE	.5	.9	1.6									3.0	6.3
ENE	.4	1.4	.7	.1								2.6	5.8
E	.2	1.4	1.1	.4	.1							3.2	7.4
ESE	.4	1.0	.1	.1								1.6	5.2
SE	.1	.4										.5	4.5
SSE	.1	.5										.6	4.2
S		.2	.2									.5	6.3
SSW	.1	.5	1.4	4.7	1.8	.5	.1					9.1	14.2
SW	.1	2.2	7.0	18.0	3.7	.7						31.7	12.5
WSW		2.0	11.3	5.3	.5							19.1	9.7
W	.2	2.6	4.3	1.0	.1							8.2	7.8
WNW		1.8	.7									2.6	5.7
NW	.1	1.8	.6									2.6	5.7
NNW		1.5	.2	.2								2.0	6.3
VARBL													
CALM												2.0	
	4.2	21.6	33.2	31.9	6.3	1.2	.1					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS

813

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569

NATRONA CO/CASPER WY

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.6	2.0	1.2	.2							5.3	8.8
NNE		1.0	2.2	1.1	.7							5.0	10.0
NE	.1	1.1	1.0	.6	.1							2.9	8.3
ENE		1.4	1.2									2.6	6.7
E		1.5	.9	.2								2.6	7.1
ESE	.1	.9	.6									1.6	6.2
SE	.2	1.0	.4									1.6	5.5
SSE	.1	.4	.1									.6	4.8
S	.2	1.6	.2	.4	.2							2.7	7.5
SSW	.1	.9	1.5	7.6	7.7	1.1	.1					19.0	15.8
SW	.1	1.0	3.6	16.0	11.4	3.6	.4					36.0	15.7
WSW	.1	.7	1.7	5.3	1.2							9.1	12.4
W		.6	1.0	2.2	.6	.5						9.9	13.2
WNW		.9	.5	.1	.2							1.7	8.6
NW	.1	.7	.7	.4								2.0	7.3
NNW	.1	.5	.6	.4								1.6	7.6
VARBL													
CALM												.7	
	1.7	15.6	18.2	35.5	22.6	5.2	.5					100.0	12.9

TOTAL NUMBER OF OBSERVATIONS

814

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569C  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

OCT  
MONTHS

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.2	1.2	2.6	.4							4.7	11.3
NNE		.7	2.2	1.7	.6	.1						5.5	11.3
NE		.4	1.7	.7	.2							3.1	10.2
ENE		.4	1.1	.1								1.6	7.3
E	.1	.9	2.1	1.2	.1							4.5	9.1
ESE	.2	.9	.2	.2								1.6	6.0
SE	.1	1.0										1.1	5.0
SSE	.2	.1	.1									.5	5.0
S		.6	.4	.5	.1							1.6	9.8
SSW	.2	.6	2.0	6.5	4.3	1.6						15.3	15.1
SW		.6	2.6	11.3	10.3	2.5	.1					27.5	15.8
WSW	.1	1.0	2.5	4.3	2.9	1.4	.5					12.7	14.9
W		.5	2.6	4.2	2.4	.4	.1					10.2	13.6
WNW	.2	.6	1.1	2.1	.4	.2						4.7	11.4
NW		1.0	.9	.7		.1						2.7	9.4
NNW		.9	.9	.5								2.2	7.9
VARBL													
CALM												.5	
	1.6	10.4	21.7	36.9	21.7	6.3	.7					100.0	13.2

TOTAL NUMBER OF OBSERVATIONS

805

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.8	1.6	1.2	.5							5.1	9.6
NNE	.1	1.2	2.2	4.2	1.5							9.2	12.0
NE	.2	1.0	2.3	1.2								4.7	8.6
ENE		.6	.7	.5								1.8	7.9
E	.4	1.1	1.8	1.5	.2							5.0	9.2
ESE	.1	.4	1.1	.4								1.9	8.3
SE		.8	.4	.1								1.3	6.2
SSE		.5	.2									.7	5.5
S		1.0	1.1	.7	.1							2.9	9.0
SSW	.1	.6	2.7	3.6	2.1	.2						9.3	12.7
SW		.7	3.2	7.9	3.2	1.7						16.6	14.2
WSW		1.0	2.5	3.9	2.8	1.3	.1					11.7	14.4
W	.1	2.1	4.7	5.6	2.4	.4						15.3	11.7
WNW	.2	.7	2.2	3.9	.8	.1						8.0	11.8
NW		.7	1.0	1.6		.2						3.5	11.2
NNW		.8	.6	.6	.1							2.2	8.9
VARBL													
CALM												.6	
	1.3	15.0	28.3	36.9	13.7	4.0	.1					100.0	11.7

TOTAL NUMBER OF OBSERVATIONS

824

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSOCT  
MONTHALL WEATHER  
CLASS1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.4	2.6	1.0	.6							7.1	8.2
NNE	.1	2.7	2.9	3.3	1.1							10.1	9.8
NE	.1	1.7	2.9	.9	.1							5.7	8.3
ENE	.1	.9	2.2	.6								3.8	8.3
E	.1	1.7	3.4	.7								6.0	7.8
ESE		1.2	.6	.1								2.0	6.3
SE	.1	1.0	.2	.1								1.5	6.7
SSE		.6	.2									.9	5.4
S	.4	.9	.7	.4								2.3	6.4
SSW	.5	1.0	3.4	3.5	.4	.4	.1					9.3	11.0
SW	.2	2.3	7.4	5.5	1.1		.1					16.7	10.1
WSW		2.0	8.4	1.7	.5							12.6	8.8
W	.2	3.4	3.7	1.5	.4	.1						9.3	8.2
WNW	.2	2.7	2.1	.5	.1							5.6	7.1
NW		1.6	1.3	.1	.9							3.4	7.9
NNW	.1	1.1	1.3									2.6	6.0
VARBL													
CALM												1.2	
	2.8	27.1	43.6	19.9	4.6	.5	.2					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	3.0	2.0	.9								5.9	7.5
NNE	.6	3.6	2.3	2.6	.2							9.4	8.3
NE	.4	2.0	1.5	.5								4.3	6.6
ENE	.1	1.7	1.6	.6								4.1	7.2
E		1.4	1.0	.4	.2							3.0	7.8
ESE	.2	.6	.2	.2								1.4	6.6
SE	.2	.6	.1									1.0	4.5
SSE		.1	.1									.2	6.0
S	.1	.4	.2	.2								1.0	7.5
SSW	.4	.5	1.5	1.7	1.4		.2					5.7	12.4
SW	.2	1.5	7.4	7.8	1.7	.1	.1					18.8	11.4
WSW	.4	3.9	11.8	2.1	.1	.1						18.5	8.4
W	.2	3.7	5.7	.7	.4							10.7	7.6
WNW	.5	3.4	1.5	.1								5.5	5.8
NW		3.3	1.2	.2								4.8	6.4
NNW	.1	2.1	.9	.2								3.3	6.4
VARBL													
CALM												2.5	
	3.7	31.8	39.0	18.3	4.1	.2	.4					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

812

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSOCT  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.0	1.6	1.1	.2							5.3	8.2
NNE	.3	1.9	2.6	2.0	.5	.0						7.4	9.2
NE	.2	1.1	1.8	.6	.1							3.7	8.0
ENE	.2	1.0	1.2	.2								2.6	7.0
E	.2	1.3	1.4	.7	.1							3.6	8.1
ESE	.2	.7	.4	.2								1.4	6.5
SE	.1	.7	.2	.0								1.0	5.5
SSE	.1	.3	.1									.5	5.1
S	.1	.7	.4	.3	.1							1.5	7.9
SSW	.2	.7	1.9	4.3	2.6	.5	.1					10.3	13.8
SW	.2	1.6	5.8	11.2	4.4	1.1	.2					24.4	13.2
WSW	.2	2.6	7.3	3.8	1.1	.4	.1					15.4	10.2
W	.3	2.6	3.9	2.2	.9	.2	.0					10.2	9.5
WNW	.3	2.1	1.3	.9	.2	.0						4.8	8.1
NW	.1	1.9	1.1	.4	.0	.0						3.6	7.3
NNW	.1	1.6	.8	.3	.0							2.8	6.7
VARBL													
CALM												1.5	
	3.0	22.7	31.8	28.1	10.2	2.3	.3					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS

6524



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.1	1.6	1.1	.5	.1						5.8	9.0
NNE	.1	1.4	2.0	1.1	.1							4.8	8.7
NE	.3	.8	1.0	1.0								3.0	8.4
ENE		1.0	.5									1.5	6.3
E	.1	.6	.9									1.6	6.4
ESE		.6	.1									.8	5.0
SE		.8	.1									.9	5.0
SSE	.1	.4										.5	4.5
S		.3										.3	4.5
SSW	.1	.1	1.3	5.4	3.8	.9	.3	.1				11.9	15.9
SW		1.4	6.0	14.2	5.8	.8						28.2	13.4
WSW	.3	1.4	14.3	5.7	.5	.1						22.3	9.8
W	.1	2.0	3.3	1.4	.1							6.9	8.3
WNW	.1	1.9	1.0	.4								3.4	6.7
NW	.6	1.5	.9	.3	.1							3.4	6.3
NNW	.3	1.0	1.1	.1								2.5	6.4
VARBL													
CALM												2.3	
	2.4	17.2	34.2	30.7	10.9	1.9	.3	.1				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS

795

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	1.3	.8								3.7	7.9
NNE		2.1	1.8	2.1	.1							6.2	9.1
NE		.6	.5	.6								1.8	8.9
ENE			.6	.1								.8	7.7
E	.3	1.0	.6									1.9	5.6
ESE	.1	.8	.4	.1								1.4	6.5
SE	.1	.5										.6	4.2
SSE	.3	.1	.1									.5	4.3
S	.1		.3	.3								.6	9.2
SSW		.4	1.3	4.7	2.9	.9	.3					10.4	15.1
SW	.3	1.0	6.1	16.4	6.2	1.3	.4					31.6	13.9
WSW	.6	2.7	11.0	6.4	.6	.3	.1					21.7	9.8
W	.3	2.1	4.2	.9		.1						7.6	8.1
WNW	.1	1.5	.8	.1								2.5	6.1
NW	.4	2.0	1.0	.4	.1							3.9	6.6
NNW	.1	1.3	.5	.3								2.1	6.5
VARBL													
CALM												2.8	
	2.8	17.7	30.3	33.2	10.0	2.5	.8					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

792

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569~  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.1	.8	.8								3.3	7.4
NNE	.4	2.9	1.5	1.8	.5	.1						7.2	8.9
NE	.1	.5	1.0	.4	.1							2.1	8.8
ENE		.4	.5	.1								1.0	7.4
E		.9	.5	.1								1.5	6.7
ESE	.1	.6	.4									1.1	5.6
SE													
SSE		.3	.1									.4	5.7
S	.1					.1						.3	12.0
SSW		.9	1.5	4.8	4.6	1.3						13.0	15.0
SW		.8	5.1	19.3	7.7	1.4	.6	.1				35.0	14.6
WSW	.3	2.0	12.6	4.3	.6	.4						20.2	9.5
W	.5	1.6	3.7	.8	.4							7.0	8.1
WNW	.1	1.1	.3									1.5	5.1
NW	.3	1.8	.3									2.3	5.1
NNW	.4	1.0	.5									1.9	5.3
VARBL													
CALM												2.1	
	2.9	15.9	28.7	32.4	13.9	3.3	.6	.1				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

791

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	.8	.6	.1							2.3	8.9
NNE	.3	.6	1.5	1.6	.9							4.9	10.9
NE	.1	.9	.9	.6								2.5	8.1
ENE		.6	.9	.3	.3							2.0	8.9
E	.1	.9	1.1	.5	.1							2.8	8.4
ESE	.1	.6	.5									1.3	6.2
SE	.3	.4		.1								.8	5.3
SSE	.1	.1										.3	4.0
S	.4	1.3										1.6	4.1
SSW	.1		1.1	5.1	8.6	3.7	.5	.1				19.3	18.3
SW	.1	.4	2.9	15.6	16.0	5.8	1.0	.4				42.3	17.3
WSW	.3	.8	3.2	5.3	.4	.4	.1					10.4	11.6
W		.9	1.1	1.9	.1	.5	.1					4.7	12.2
WNW		.6	.5	.5			.1					1.8	10.4
NW	.1	1.0	.8	.1								2.0	6.9
NNW		.1	.5	.1								.8	8.5
VARBL													
CALM												.3	
	2.2	9.9	15.9	32.5	26.5	10.9	1.9	.5				100.0	18.6

TOTAL NUMBER OF OBSERVATIONS

788

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569

NATRONA CO/CASPER WY

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.5	1.6	.8	.3	.1						3.4	10.1
NNE		.6	2.2	2.5	.5							5.8	11.3
NE		.5	1.4	1.5	.1							3.5	9.9
ENE	.1	.5	.6	.3								1.5	7.5
E	.1	.8	1.0	.6								2.5	8.7
ESE		.1	.6									.8	7.7
SE	.1	.4	.3	.1								.9	6.7
SSE	.1	.3										.4	5.0
S	.1	.3										.4	5.0
SSW			1.4	5.2	8.1	3.2	1.1					19.0	18.6
SW		.6	2.3	11.7	12.9	6.2	1.1	.1				35.0	17.7
WSW	.5	.3	2.3	4.8	2.7	.5	.4					11.4	14.1
W	.3	.5	.9	2.2	.9	1.4		.1				6.2	14.9
WNW	.1	.8	1.0	1.0	.4	.4						3.7	11.3
NW	.1	.9	.9	.9	.6							3.4	10.3
NNW	.1	.5	.8	.3	.4							2.0	9.9
VARBL													
CALM													
	1.9	7.5	17.2	31.8	26.9	11.8	2.7	.3				100.0	15.0

TOTAL NUMBER OF OBSERVATIONS

789

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4	1.5	.9	.1	.1						3.0	10.8
NNE	.1	.9	2.8	2.7	.6	.1						7.2	11.1
NE	.1	1.7	.8	.9								2.8	8.5
ENE		.5	1.0	.5								2.0	8.8
E		.5	2.1	.8								3.4	8.5
ESE		.3	.8	.5								1.5	9.1
SE	.1	.3	.1									.5	5.3
SSE		.3	.1	.1								.5	7.3
S	.3	.6	.4	.3	.1							1.6	7.7
SSW		.4	2.1	4.9	3.7	1.0	.9					13.0	16.0
SW	.1	.9	5.8	12.9	6.4	2.0	.8					29.0	19.7
WSW	.1	.8	4.3	4.7	2.7	.6	.1					13.3	12.9
W	.3	1.1	3.7	3.3	1.3	.4	.3					10.2	11.8
WNW		.8	1.8	1.6	.6	.4						5.2	11.7
NW		1.0	.8	1.0								2.8	8.7
NNW	.4	.8	1.4	.8	.3	.1						3.7	9.3
VARBL													
CALM												.3	
	1.5	10.9	29.5	35.8	15.8	4.8	2.0					100.0	12.6

TOTAL NUMBER OF OBSERVATIONS 791

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A1: WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569 STATION NATRONA CO/CASPER WY 73-81 YEARS HQV MONTH 1890-2000 MONTHS (L & T)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.8	1.3	1.1	.1	.1						4.5	8.9
NNE	.1	1.4	2.9	2.0	.4							6.8	9.5
NE		.9	2.0	.5								3.4	8.0
ENE		.5	1.5	.3								2.3	8.3
E	.1	1.1	1.9	.5								3.7	7.8
ESE	.3	.4	.9									1.5	6.8
SE	.3	.3										.5	3.8
SSE	.1											.1	2.0
S		.3	.1									.4	6.3
SSW	.1	.5	1.8	2.6	3.7	.5	.1					9.3	15.1
SW	.4	1.0	4.4	12.0	4.9	1.5	.4	.1				24.7	14.0
WSW	.3	2.3	10.5	4.4	.9	.1						18.4	9.7
W	.3	4.5	5.3	1.3	.8			.1				12.2	8.5
WNW	.4	2.3	1.8	.4	.3							5.0	7.1
NW	.1	2.0	2.0	.1								4.3	6.8
NNW		.8	.6	.3								1.6	7.1
VARBL													
CALM												1.3	
	2.5	19.9	36.9	25.4	11.0	2.3	.5	.3				100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 794

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT- WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

705690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSNOV  
MONTHALL WEATHER  
CLASS2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.8	1.4	1.3	.5	.1						5.4	9.3
NNE	.1	1.8	3.4	1.5								6.8	8.7
NE	.3	1.1	1.5	1.3								4.2	8.5
ENE	.1	1.1	.9	.3								2.4	6.8
E	.1	1.4	.8	.1								2.4	6.1
ESE		.8	.3									1.0	6.1
SE		.6										.6	4.8
SSE		.4	.1									.5	5.5
S		.9	.1									1.0	5.5
SSW	.1	.4	.9	4.0	4.3	.6	.4					10.7	15.9
SW	.3	1.4	4.3	11.5	5.2	1.4	.6					24.6	19.2
WSW	.4	2.9	10.1	5.6	.6	.4						19.9	9.6
W	.4	2.8	3.8	1.0	1.4	.3	.1					9.7	9.7
WNW		2.5	1.6	.5	.3							4.9	7.5
NW		1.4	1.0	.1								2.5	6.6
NNW	.6	.6	.3	.3								1.8	5.5
VARBL													
CALM												1.4	
	2.8	21.8	30.4	27.4	12.2	2.8	1.1					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

792



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLIM

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	1.3	.9	.2	.1						3.9	9.0
NNE	.1	1.5	2.3	1.9	.4	.0						6.2	9.7
NE	.1	.8	1.1	.9	.0							2.9	8.6
ENE	.0	.6	.8	.2	.0							1.7	7.8
E	.1	.9	1.1	.3	.0							2.5	7.5
ESE	.1	.5	.5	.1								1.2	6.7
SE	.1	.4	.1	.0								.6	5.1
SSE	.1	.2	.1	.0								.4	5.1
S	.1	.4	.1	.1	.0	.0						.8	6.3
SSW	.1	.3	1.4	4.6	4.9	1.5	.4	.0				13.3	16.6
SW	.1	.9	4.6	14.2	8.1	2.5	.6	.1				31.3	15.2
WSW	.3	1.6	8.5	5.1	1.1	.3	.1					17.2	10.5
W	.3	2.0	3.2	1.6	.6	.3	.1	.0				8.1	10.0
WNW	.1	1.4	1.1	.6	.2	.1	.0					3.5	8.5
NW	.2	1.5	.9	.4	.1							3.1	7.2
NNW	.2	.8	.7	.3	.1	.0						2.1	7.4
VARBL													
CALM												1.3	
	2.4	15.1	27.9	31.1	15.9	5.0	1.2	.2				100.0	11.9

TOTAL NUMBER OF OBSERVATIONS

6332

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	1.5	.7								4.2	7.7
NNE		.7	1.0	.6	.2							2.6	9.4
NE	.1	.7	1.0	.7								2.6	8.3
ENE		.7	.6	.1								1.5	6.8
E		1.2	.5									1.7	6.0
ESE		.5	.4									.9	6.1
SE	.1	.4										.5	4.0
SSE	.1											.1	3.0
S	.2	.1										.4	3.7
SSW	.1	.2	1.3	3.2	5.5	2.8	.5					13.7	18.0
SW	.2	1.2	3.3	18.1	11.0	4.5	.7					39.2	16.0
WSW		1.2	7.2	5.9	1.5							15.8	10.9
W	.5	2.1	3.6	1.6	.2	.1						8.1	8.7
WNW	.2	1.2	.5	.4								2.3	6.8
NW	.1	1.1	1.1		.1							2.5	7.0
NNW	.4	1.2	.6									2.2	5.2
VARBL													
CALM												1.8	
	2.7	14.2	22.5	31.4	18.6	7.5	1.2					100.0	12.7

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSDEC  
MONTHALL WEATHER  
CLASS0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.6	1.7	.6	.1		.1					4.4	8.4
NNE	.5	1.6	.5	.5								3.1	6.5
NE	.2	1.6	1.0	.7								3.6	7.4
ENE		1.0	.7									1.7	6.9
E	.1	.6		.2								1.0	6.5
ESE		.4	.4									.7	6.3
SE		.1										.1	4.0
SSE				.2								.2	12.5
S	.4	.2										.6	3.2
SSW		.7	.9	3.1	5.0	3.2	.5					13.4	18.0
SW	.2	.7	3.7	16.5	13.8	4.4	.1	.1				39.6	16.2
WSW		.9	7.6	6.1	.7	.6						16.0	11.1
W	.1	2.0	2.7	1.8	.6	.1						7.4	9.7
WNW	.1	.7	1.0	.7								2.6	9.1
NW	.2	1.0	.4	.4								2.0	6.9
NNW	.2	2.0	.1	.1								2.5	5.1
VARBL													
CALM												1.2	
	2.5	15.1	20.6	31.1	20.3	8.9	.7	.1				100.0	12.9

TOTAL NUMBER OF OBSERVATIONS

814

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	1.0	.7	.1							3.9	7.7
NNE	.2	1.2	1.2	1.1		.2	.1					4.1	9.8
NE		1.5	1.2	.2								2.9	7.0
ENE		1.0	.9	.2								2.1	7.4
E	.1	.9	.5	.1								1.6	6.3
ESE	.1	.5	.2									.9	5.6
SE		.2	.1									.4	5.7
SSE			.1									.1	8.0
S		.5	.1									.6	4.6
SSW	.2	.1	.2	3.2	5.0	3.4	.5	.1				12.8	19.0
SW	.1	1.2	2.1	17.1	13.2	5.2	.5					39.5	16.5
WSW		1.2	7.9	5.8	.4	.5	.1					15.9	10.7
W	.1	1.8	3.3	2.7	.2							8.1	9.3
WNW		.9	1.6	.1								2.6	7.6
NW		.9	.4	.2								1.5	7.3
NNW	.5	1.0	.5	.1								2.1	5.7
VARBL													
CALM												1.1	
	1.6	14.7	21.3	31.7	19.0	9.4	1.2	.1				100.0	13.1

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLIM

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.1	.7	.4	.1	.1						2.8	8.3
NNE	.1	1.2	2.3	1.6	.6							5.9	9.6
NE	.4	1.0	.7	.4								2.5	6.8
ENE		.6	.6	.6								1.8	9.1
E	.2	.4	.7									1.3	7.0
ESE	.1	.2	.4									.7	7.0
SE		.4										.4	5.3
SSE	.1	.5	.1									.7	5.0
S	.1	.5	.2									.9	4.7
SSW	.1	.1	.5	2.7	6.4	4.9	.2	.1	.1			15.2	19.7
SW		.4	1.5	12.6	17.4	10.8	2.3					45.0	18.8
WSW	.1	.9	4.0	4.8	1.2	.5	.2					11.8	12.5
W	.2	1.0	1.5	1.7	.2	.1						4.8	10.6
WNW		.7	1.1	.6		.1						2.6	9.3
NW	.1	1.1	.2	.2								1.7	6.5
NNW		.2	.7	.1								1.1	8.0
VARBL													
CALM												.9	
	2.1	10.3	15.4	25.7	26.0	16.5	2.8	.1	.1			100.0	15.2

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.7	.2	.8								1.9	8.9
NNE		.5	2.2	1.2	.6							4.5	10.7
NE		1.2	2.2	.5								3.9	7.7
ENE		.2	1.2	1.0								2.4	9.7
E		.7	.2	.4	.1							1.5	8.7
ESE		1.2	.4									1.6	5.6
SE		.4										.4	4.7
SSE		.2										.2	4.0
S	.2	.2	.1	.1								.7	5.5
SSW		.2	.5	2.5	5.4	4.2	.6	.1	.2			13.9	20.0
SW	.1	.2	1.1	10.7	16.6	12.7	3.3	.5				45.2	19.8
WSW		.4	1.2	3.3	2.4	1.0						8.2	15.3
W	.2	.6	1.6	4.8	1.6	.1						9.0	13.2
WNW		.5	1.1	.6	.5	.4						3.0	12.6
NW	.2	.1	.4	.4		.1						1.2	10.0
NNW	.1	1.0	.6	.4	.1							2.2	7.8
VARBL													
CALM												.2	
	1.1	8.5	13.0	26.6	27.9	18.5	3.9	.6	.2			100.0	16.3

TOTAL NUMBER OF OBSERVATIONS

826

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	1.4	.4								2.5	8.2
NNE		1.4	2.1	3.1	.1							6.7	10.0
NE		1.7	1.5	.7								4.0	7.8
ENE		.2	.1	.5								.9	10.1
E	.1	.9	2.0	.6	.2							3.8	8.7
ESE		.5	.6	.1								1.2	7.1
SE			.1									.1	8.0
SSE		.1										.1	6.0
S		.1			.1							.2	12.0
SSW	.1		.7	3.7	5.2	2.3	.1					12.2	17.8
SW	.1	.7	2.6	15.4	10.1	5.8	1.5	.4				36.7	16.9
WSW	.1	1.0	5.8	4.6	2.7	1.4	.2					15.8	13.4
W	.2	1.0	3.7	3.1	.7	.1	.1					9.0	10.8
WNW			.9	1.0	.5	.1						2.5	13.1
NW	.1	.5	.6	.2	.2							1.7	8.6
NNW	.1	.6	1.0	.1	.2							2.1	8.9
VARBL													
CALM												.5	
	1.1	9.4	23.1	33.6	20.2	9.8	2.0	.4				100.0	13.9

TOTAL NUMBER OF OBSERVATIONS

810

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	1.7	.1								3.4	6.9
NNE		1.5	1.4	1.1	.1	.4						4.4	9.9
NE	.2	1.6	.5	1.6	.1							4.1	8.7
ENE	.1	.7	1.6	.6	.1							3.2	8.7
E	.2	1.4	1.1	.4	.2							3.3	7.9
ESE		.6	.5	.4								1.5	8.1
SE		.4	.1									.5	5.5
SSE		.1										.1	5.0
S	.1	.2	.1			.1						.6	8.8
SSW		.1	.2	3.8	4.3	1.2	.2	.1				10.1	18.0
SW	.1	.7	4.5	14.7	11.9	4.3	.5					36.9	15.8
WSW		1.1	7.1	6.1	1.1	.5	.4	.2				16.6	12.2
W		1.8	4.8	.7	.4	.4						8.1	9.3
WNW	.2	1.1	.9	.6	.1							2.9	8.3
NW	.2	.7	1.0									2.0	6.3
NNW		.7	.7									1.5	6.5
VARBL													
CALM												.9	
	1.7	14.1	26.3	30.2	18.4	6.9	1.1	.4				100.0	12.6

TOTAL NUMBER OF OBSERVATIONS

814



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS/ DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	.6	.2	.1	.4						2.1	10.8
NNE	.1	1.1	.7	.7	.4	.1						3.2	9.6
NE	.2	1.0	1.1	.9								3.2	7.8
ENE	.2	1.1	1.1	.5								2.9	7.4
E		1.4	.5	.5		.1						2.5	8.3
ESE	.2	1.2	.1									1.6	4.9
SE	.2	.2	.2									.7	5.5
SSE	.1	.2										.4	5.0
S		.1	.1									.2	6.0
SSW	.1	.1	.4	3.2	5.4	.9	.1	.1				10.3	17.2
SW		1.7	3.8	16.8	11.2	4.4	.6					38.6	15.8
WSW	.4	1.8	8.0	5.4	1.8	.2	.5					18.2	11.2
W	.2	1.8	3.4	1.2	.4	.4						7.5	9.1
WNW	.4	1.2	.9									2.5	6.2
NW	.1	1.1	1.4	.4								2.9	7.6
NNW	.1	1.2	1.0	.2								2.6	6.7
VARBL													
CALM												.6	
	2.7	16.1	23.3	30.1	19.3	6.5	1.2	.1				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

814

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	1.1	.5	.1	.1	.0					3.2	8.2
NNE	.1	1.1	1.4	1.2	.3	.1	.0					4.3	9.6
NE	.2	1.3	1.1	.7	.0							3.3	7.7
ENE	.0	.7	.9	.4	.0							2.1	8.1
E	.1	.9	.7	.3	.1	.0						2.1	7.7
ESE	.1	.6	.4	.1								1.1	6.3
SE	.0	.3	.1									.4	5.2
SSE	.0	.2	.0	.0								.3	5.9
S	.1	.3	.1	.0	.0	.0						.5	5.6
SSW	.1	.2	.6	3.2	5.3	2.9	.4	.1	.0			12.7	18.5
SW	.1	.9	2.8	15.2	13.2	6.5	1.2	.1				40.1	17.1
WSW	.1	1.1	6.1	5.3	1.5	.6	.2	.0				14.8	11.9
W	.2	1.5	3.1	2.2	.6	.2	.0					7.7	10.1
WNW	.1	.8	1.0	.5	.1	.1						2.6	9.2
NW	.2	.8	.7	.2	.0	.0						1.9	7.4
NNW	.2	1.0	.7	.1	.0							2.0	6.6
VARBL													
CALM												.9	
	1.9	12.8	20.7	30.0	21.2	10.4	1.8	.2	.0			100.0	13.6

TOTAL NUMBER OF OBSERVATIONS

6533

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7569  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARSALL  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	%	MEAN WIND SPEED
N	.3	1.7	1.6	.9	.2	.1	.0	.0				4.9	8.6
NNE	.2	1.7	2.2	1.9	.5	.1	.0	.0				6.5	9.7
NE	.2	1.3	1.7	1.0	.1	.0						4.3	8.6
ENE	.1	1.0	1.3	.7	.1	.0						3.2	8.4
E	.2	1.4	2.0	1.4	.3	.0						5.2	9.3
ESE	.1	.7	.8	.3	.0	.0	.0					2.1	7.9
SE	.1	.7	.3	.1	.0	.0						1.2	6.4
SSE	.1	.6	.3	.1	.0	.0						1.1	6.4
S	.2	.7	.6	.4	.1	.0	.0					1.9	8.2
SSW	.1	.8	1.7	4.1	3.4	1.4	.3	.1	.0	.0		11.9	15.4
SW	.2	1.2	3.9	8.7	5.2	2.1	.4	.0	.0			21.7	14.7
WSW	.3	2.0	6.1	3.9	1.1	.5	.1	.0				14.1	10.8
W	.4	2.4	3.3	2.2	.8	.3	.0	.0				9.5	10.0
WNW	.2	1.5	1.2	.8	.3	.1	.0					4.1	8.8
NW	.2	1.5	1.1	.5	.1	.0	.0					3.5	7.9
NNW	.2	1.5	1.2	.5	.1	.0	.0	.0				3.5	7.6
VARBL													
CALM												1.4	
	3.0	20.6	29.3	27.7	12.4	4.6	.9	.1	.0	.0		100.0	11.0

TOTAL NUMBER OF OBSERVATIONS

77088

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725690

NATRONA CO/CASPER WY

73-81

ALL

STATION

STATION NAME

YEARS

NORTH

INSTRUMENT

CLASS

ALL

HOURS (L.S.T.)

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE.

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.1	4.8	4.1	1.8	.2	.0	.0				14.1	10.3
NNE	.3	3.2	8.7	11.2	2.8	.4	.1					26.8	11.4
NE	.2	2.4	6.2	5.7	.6							15.1	10.1
ENE	.2	1.7	3.4	3.2	.5	.0						9.0	10.0
E	.2	2.0	3.2	3.1	.9	.0						9.5	10.2
ESE	.1	1.0	1.0	.2								2.3	7.1
SE	.1	.6	.1	.0								.8	5.5
SSE	.1	.2	.1		.0							.5	5.8
S	.1	.3	.1	.0	.0							.5	6.1
SSW	.1	.4	.4	.3	.0	.0	.0	.0				1.3	9.4
SW	.2	.8	.6	.3	.1	.0						1.9	8.0
WSW	.4	1.1	1.1	.3	.1		.0					3.0	7.4
W	.3	1.4	.9	.7	.1	.0	.0					3.4	7.9
WNW	.2	1.0	.7	.5	.1	.1						2.6	8.5
NW	.2	1.0	.8	.4	.0							2.4	7.5
NNW	.2	1.7	1.6	1.2	.4	.0	.0					5.2	9.1
VARBL													
CALM												1.6	
	3.4	21.7	33.7	31.4	7.1	.9	.1	.0				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS

5231

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{5}{16}$	$\geq \frac{1}{4}$	$\geq 0$
NO CEILING															
1800															
1500					91.0										92.6
1200															
1000															
900															
800															
700															
600															
500										97.4					98.1
400															
300															
200															
100															
0					95.4		96.9		98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO. CEILING	59.7	60.0	60.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 20000	64.9	65.3	65.3	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 18000	65.0	65.4	65.4	65.4	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 16000	65.0	65.4	65.4	65.4	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 14000	66.7	66.4	66.4	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 12000	68.1	68.4	68.4	68.4	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 10000	71.2	71.6	71.6	71.6	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 9000	72.1	72.5	72.5	72.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 8000	72.3	72.7	72.8	72.9	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 7000	73.3	73.7	73.8	73.9	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 6000	75.1	75.5	75.6	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 5000	76.1	76.5	76.6	76.7	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 4500	76.9	77.3	77.4	77.5	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4000	77.5	78.2	78.5	78.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 3500	78.0	78.8	79.1	79.2	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 3000	79.2	80.3	80.9	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2500	80.1	81.3	81.9	82.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 2000	81.1	82.8	83.6	84.3	84.8	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1800	81.1	82.8	83.9	84.7	85.3	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1600	81.4	83.5	84.7	85.8	86.5	86.8	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1400	82.2	84.6	86.2	87.4	88.1	88.3	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1200	82.2	85.0	86.5	87.7	88.7	89.2	89.9	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1000	82.2	85.2	86.9	88.3	89.4	90.2	90.9	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 900	82.2	85.4	87.3	88.7	91.0	91.7	92.5	93.3	93.6	93.9	94.1	94.1	94.1	94.1	94.1	94.1
≥ 800	82.2	85.8	87.6	89.1	91.4	92.2	93.0	93.9	94.2	94.5	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	82.4	86.3	88.1	89.6	92.1	93.0	93.8	95.4	95.6	96.0	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	82.5	86.5	88.3	89.8	92.4	93.4	94.3	96.0	96.2	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500	82.8	87.0	89.1	90.7	93.2	94.3	95.1	96.8	97.1	97.9	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	83.0	87.6	89.8	91.4	93.9	95.0	95.9	97.6	97.8	98.7	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	83.0	87.7	89.9	91.5	94.3	95.4	96.2	97.9	98.2	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	83.0	87.7	89.9	91.5	94.4	95.5	96.4	98.1	98.3	99.2	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	83.0	87.7	89.9	91.5	94.4	95.5	96.4	98.1	98.3	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	83.0	87.7	89.9	91.5	94.4	95.5	96.4	98.1	98.3	99.2	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	60.3	61.2	61.3	61.4	61.4	61.4	61.5	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 20000	65.7	66.6	66.7	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	65.7	66.6	66.7	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	65.7	66.6	66.7	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	65.9	66.9	67.0	67.1	67.1	67.1	67.2	67.2	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 12000	67.1	68.1	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 10000	70.6	71.6	71.7	71.8	71.8	71.8	71.9	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 8000	71.2	72.2	72.3	72.4	72.4	72.4	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 6000	72.7	73.6	73.8	73.9	73.9	73.9	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 4000	74.7	75.8	75.9	76.1	76.1	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 2000	75.6	76.8	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 1000	76.4	77.6	77.9	78.0	78.0	78.0	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 500	76.5	77.9	78.1	78.2	78.2	78.2	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 100	77.1	78.5	78.7	78.8	79.0	79.0	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 50	77.5	79.4	79.7	79.9	80.0	80.0	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.4	80.4	80.4
≥ 10	79.7	81.5	82.0	82.3	82.5	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8
≥ 5	80.2	83.0	83.4	83.9	84.0	84.0	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.4	84.4	84.4
≥ 1	80.7	83.8	84.6	85.5	85.6	85.6	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.1	86.1	86.1
≥ 0.5	80.8	84.2	85.1	86.1	86.2	86.2	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.7	86.7	86.7
≥ 0.25	81.1	85.1	86.1	87.5	87.8	87.8	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.3	88.3	88.3
≥ 0.1	82.3	86.9	88.0	89.5	89.7	89.7	90.0	90.2	90.2	90.3	90.3	90.3	90.3	90.4	90.4	90.4
≥ 0.05	82.7	87.3	88.4	89.8	90.3	90.4	90.8	91.2	91.2	91.3	91.3	91.3	91.3	91.4	91.4	91.4
≥ 0.025	82.7	87.7	88.8	90.2	90.8	90.9	91.3	92.0	92.0	92.1	92.1	92.1	92.1	92.3	92.3	92.3
≥ 0.01	82.8	88.1	89.6	91.3	92.6	92.9	93.2	94.6	94.6	94.7	94.7	94.7	94.7	94.8	94.8	94.8
≥ 0.005	82.8	88.3	89.7	91.4	92.7	93.0	93.3	94.7	94.7	94.8	94.8	94.8	94.8	94.9	94.9	94.9
≥ 0.0025	83.0	88.9	90.3	92.0	93.3	93.6	94.0	95.9	95.9	96.3	96.3	96.3	96.3	96.4	96.4	96.4
≥ 0.001	83.0	89.2	90.8	92.5	93.8	94.1	94.6	96.6	96.6	97.1	97.1	97.1	97.1	97.2	97.2	97.2
≥ 0.0005	83.1	89.4	91.1	92.7	94.1	94.3	94.9	97.0	97.0	97.8	97.9	97.9	97.9	98.1	98.1	98.1
≥ 0.00025	83.2	89.6	91.3	93.0	94.4	94.8	95.4	97.5	97.5	98.3	98.5	98.5	98.5	98.7	98.7	98.7
≥ 0.0001	83.2	89.6	91.3	93.0	94.6	94.9	95.6	97.7	97.7	98.7	98.9	98.9	98.9	99.2	99.2	99.2
≥ 0.00005	83.2	89.6	91.3	93.0	94.7	95.0	95.8	97.8	97.8	98.9	99.3	99.3	99.3	99.4	99.8	99.8
≥ 0.000025	83.2	89.6	91.3	93.0	94.7	95.0	95.8	97.8	97.8	98.9	99.3	99.3	99.3	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 827

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	53.1	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 2700	61.8	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 1800	61.8	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 1600	61.8	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 1400	62.8	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 1200	65.2	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 1000	69.8	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 900	71.0	71.9	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 800	72.6	73.5	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 700	75.3	76.2	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 600	77.5	78.4	78.8	78.8	78.8	78.8	78.9	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 500	79.4	80.2	80.6	80.6	80.6	80.6	80.7	80.7	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 450	80.6	81.7	82.1	82.1	82.1	82.2	82.3	82.3	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 400	81.2	82.6	82.9	83.1	83.2	83.3	83.4	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 350	82.3	84.0	84.4	84.5	84.7	84.8	84.9	84.9	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 300	83.3	85.2	85.8	86.0	86.1	86.3	86.4	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 250	83.9	85.9	86.5	86.7	87.1	87.2	87.4	87.5	87.5	87.7	87.7	87.7	87.7	87.9	87.9	87.9
≥ 200	84.2	86.3	87.0	87.2	87.6	87.7	88.0	88.2	88.2	88.5	88.5	88.5	88.6	88.6	88.6	88.6
≥ 180	84.2	86.4	87.2	87.5	88.0	88.1	88.5	88.7	88.7	89.0	89.0	89.0	89.1	89.1	89.1	89.1
≥ 150	84.3	86.7	87.7	88.1	88.8	89.1	89.7	89.9	89.9	90.2	90.2	90.2	90.3	90.3	90.3	90.3
≥ 120	85.2	88.0	89.0	89.3	90.1	90.3	91.0	91.3	91.4	91.8	91.8	91.8	91.9	91.9	91.9	91.9
≥ 100	85.5	88.3	89.4	89.9	90.8	91.2	92.0	92.5	92.8	93.1	93.1	93.1	93.3	93.3	93.3	93.3
≥ 90	85.5	88.3	89.4	89.9	90.9	91.3	92.1	92.6	92.9	93.3	93.3	93.3	93.4	93.4	93.4	93.4
≥ 80	85.5	88.6	90.2	90.8	91.9	92.3	93.3	94.4	94.6	95.1	95.2	95.2	95.3	95.3	95.3	95.3
≥ 70	85.5	88.7	90.3	90.9	92.0	92.4	93.6	94.5	94.7	95.2	95.3	95.3	95.5	95.5	95.5	95.5
≥ 60	85.5	89.0	90.6	91.2	92.3	92.6	93.6	95.0	95.2	96.0	96.2	96.2	96.3	96.3	96.3	96.3
≥ 50	85.5	89.0	90.6	91.2	92.3	92.6	93.6	95.0	95.2	96.1	96.3	96.3	96.4	96.4	96.4	96.4
≥ 40	85.5	89.1	90.8	91.5	92.6	93.0	94.1	95.6	95.8	96.9	97.2	97.2	97.4	97.4	97.4	97.4
≥ 30	85.5	89.1	90.8	91.8	92.9	93.5	95.0	96.6	96.8	98.0	98.4	98.4	98.7	98.7	98.8	98.8
≥ 20	85.5	89.1	90.8	91.8	92.9	93.5	95.1	96.7	96.9	98.4	99.0	99.0	99.3	99.3	99.4	99.4
≥ 10	85.5	89.1	90.8	91.8	92.9	93.5	95.2	96.8	97.1	98.5	99.1	99.1	99.4	99.4	99.9	100.0
≥ 0	85.5	89.1	90.8	91.8	92.9	93.5	95.2	96.8	97.1	98.5	99.1	99.1	99.4	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 815

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO. CEILING	54.9	55.2	55.4	55.8	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.0
≥ 20000	64.3	64.6	64.8	65.2	65.2	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.6
≥ 18000	64.3	64.6	64.8	65.2	65.2	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.6
≥ 16000	64.5	64.7	65.0	65.3	65.3	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7
≥ 14000	66.4	66.7	66.9	67.3	67.3	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6
≥ 12000	70.7	70.9	71.2	71.6	71.6	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9
≥ 10000	75.3	75.6	75.8	76.2	76.2	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6
≥ 9000	78.6	79.1	79.6	80.0	80.0	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.5	80.5	80.5
≥ 8000	80.1	80.7	81.3	81.7	81.7	81.8	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.2
≥ 7000	81.7	82.4	83.0	83.4	83.4	83.5	83.6	83.6	83.8	83.8	83.8	83.8	83.8	83.9	83.9	83.9
≥ 6000	82.8	83.5	84.1	84.5	84.5	84.6	84.7	84.7	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.0
≥ 5000	84.1	85.0	85.6	86.0	86.1	86.2	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.6	86.6	86.6
≥ 4500	85.0	86.0	86.6	86.9	87.1	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5
≥ 4000	85.7	86.7	87.4	87.8	87.9	88.0	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4
≥ 3500	86.2	87.2	87.9	88.3	88.4	88.5	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 3000	86.4	87.4	88.3	88.6	88.8	88.9	89.0	89.1	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.4
≥ 2500	86.4	87.8	88.9	89.3	89.5	89.6	89.7	90.0	90.1	90.2	90.2	90.2	90.2	90.4	90.4	90.4
≥ 2000	86.8	88.4	89.5	89.9	90.1	90.2	90.5	90.7	90.8	91.1	91.1	91.1	91.1	91.2	91.2	91.2
≥ 1800	86.8	88.4	89.7	90.1	90.6	90.7	91.2	91.5	91.6	91.8	91.8	91.8	91.8	91.9	91.9	91.9
≥ 1500	86.9	88.8	90.2	90.6	91.2	91.5	92.1	92.4	92.6	92.9	92.9	92.9	92.9	93.0	93.0	93.0
≥ 1200	87.5	89.4	90.8	91.7	92.6	92.8	93.3	93.9	94.0	94.4	94.5	94.5	94.5	94.6	94.6	94.6
≥ 1000	87.7	89.5	91.0	91.8	92.8	93.0	94.0	94.4	94.5	95.1	95.4	95.4	95.4	95.5	95.5	95.5
≥ 900	87.7	89.5	91.0	91.8	92.8	93.0	94.1	94.5	94.6	95.2	95.5	95.5	95.5	95.6	95.6	95.6
≥ 800	87.7	89.5	91.0	92.1	93.2	93.4	94.6	95.0	95.1	96.0	96.3	96.3	96.3	96.5	96.5	96.5
≥ 700	87.7	89.5	91.0	92.1	93.2	93.4	94.6	95.0	95.1	96.0	96.3	96.3	96.3	96.5	96.5	96.5
≥ 600	87.7	89.5	91.0	92.2	93.3	93.5	95.0	95.6	95.8	96.8	97.7	97.7	97.7	97.8	97.8	97.8
≥ 500	87.7	89.5	91.0	92.3	93.5	93.8	95.5	96.1	96.3	97.3	98.2	98.2	98.2	98.3	98.3	98.3
≥ 400	87.7	89.5	91.0	92.4	93.8	94.0	95.7	96.3	96.6	97.6	98.5	98.5	98.5	98.7	98.8	98.8
≥ 300	87.7	89.5	91.1	92.6	93.9	94.1	95.8	96.6	96.8	97.9	99.1	99.1	99.1	99.6	99.6	99.6
≥ 200	87.7	89.5	91.1	92.6	93.9	94.1	95.8	96.6	96.8	97.9	99.4	99.4	99.4	99.9	99.9	99.9
≥ 100	87.7	89.5	91.1	92.6	93.9	94.1	95.8	96.6	96.8	97.9	99.5	99.5	99.5	100.0	100.0	100.0
≥ 0	87.7	89.5	91.1	92.6	93.9	94.1	95.8	96.6	96.8	97.9	99.5	99.5	99.5	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

819

USAF ETAC

FORM 10-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2

75690

NATRONA CO/CASPER WY

73-81

JAN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	56.4	57.1	57.1	57.1	57.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 20000	69.2	70.0	70.0	70.0	70.2	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 18000	69.2	70.0	70.0	70.0	70.2	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 16000	69.2	70.0	70.0	70.0	70.2	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 14000	70.7	71.4	71.4	71.4	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 12000	75.2	75.9	75.9	75.9	76.1	76.1	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 10000	77.4	78.1	78.1	78.1	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 9000	80.8	81.6	81.6	81.6	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 8000	82.2	82.9	82.9	82.9	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 7000	82.8	83.7	83.7	83.8	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 6000	84.1	84.9	84.9	85.0	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 5000	85.2	86.0	86.0	86.2	86.4	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4500	85.5	86.4	86.4	86.5	86.8	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4000	86.2	87.0	87.0	87.1	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3500	86.5	87.4	87.4	87.6	87.8	88.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3000	87.0	88.0	88.6	88.9	89.2	89.2	89.5	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500	87.1	88.1	88.8	89.0	89.5	89.5	89.9	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2000	87.8	88.9	89.7	90.1	90.6	90.6	91.1	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	87.9	89.0	89.9	90.2	91.0	91.0	91.5	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1500	88.5	89.7	90.7	91.1	92.1	92.1	92.6	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	88.8	90.0	91.3	92.0	93.1	93.1	93.8	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	89.0	90.2	91.6	92.3	93.7	93.8	94.8	95.8	95.8	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 900	89.1	90.4	91.7	92.5	93.8	93.9	95.1	96.3	96.3	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	89.1	90.4	91.8	92.6	93.9	94.1	95.4	96.8	96.8	97.4	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.0	97.0	97.8	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.5	97.5	98.6	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	89.2	90.6	92.1	92.8	94.2	94.3	95.7	97.7	97.7	99.3	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

809

USAF ETAC

FORM 24

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AT: WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 20000	68.0	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	68.0	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	68.1	68.3	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 14000	70.6	71.0	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 12000	75.9	76.3	76.4	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000	79.8	80.2	80.3	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 9000	81.0	81.4	81.5	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 8000	82.0	82.3	82.5	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 7000	83.4	83.8	83.9	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 6000	84.9	85.2	85.4	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 5000	86.1	86.5	86.6	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 4500	86.8	87.2	87.3	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4000	87.2	87.5	87.7	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3500	87.4	87.8	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 3000	88.0	88.6	89.0	89.5	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500	88.6	89.2	89.7	90.2	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000	89.2	90.0	90.4	91.2	91.4	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1800	90.1	90.9	91.4	92.1	92.5	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1500	90.4	91.3	91.8	92.7	93.1	93.5	93.8	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1200	90.4	91.4	92.0	93.0	93.5	93.8	94.3	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	90.6	91.7	92.4	93.6	94.2	94.7	95.4	95.8	95.9	96.7	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	90.8	91.7	92.4	93.6	94.2	94.7	95.4	95.9	96.0	96.9	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	90.7	91.8	92.6	93.8	94.4	95.0	95.8	96.4	96.5	97.9	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	90.9	92.0	92.9	94.1	94.7	95.3	96.0	96.6	96.7	98.2	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	91.1	92.1	93.0	94.2	94.8	95.4	96.1	96.7	96.9	98.3	99.2	99.2	99.2	99.3	99.3	99.3
≥ 500	91.1	92.1	93.0	94.2	94.8	95.4	96.3	96.9	97.0	98.5	99.4	99.4	99.4	99.8	99.8	99.8
≥ 400	91.1	92.4	93.2	94.4	95.0	95.6	96.5	97.1	97.2	98.8	99.6	99.6	100.0	100.0	100.0	100.0
≥ 300	91.1	92.4	93.2	94.4	95.0	95.6	96.5	97.1	97.2	98.8	99.6	99.6	100.0	100.0	100.0	100.0
≥ 200	91.1	92.4	93.2	94.4	95.0	95.6	96.5	97.1	97.2	98.8	99.6	99.6	100.0	100.0	100.0	100.0
≥ 100	91.1	92.4	93.2	94.4	95.0	95.6	96.5	97.1	97.2	98.8	99.6	99.6	100.0	100.0	100.0	100.0
≥ 0	91.1	92.4	93.2	94.4	95.0	95.6	96.5	97.1	97.2	98.8	99.6	99.6	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 827

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7.569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	59.0
≥ 20000	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.4
W 18000	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.4
W 15000	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.4
W 14000	66.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.6
W 12000	71.9	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.8
W 10000	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.0	78.0	78.0	78.0	78.1	78.1	78.2
W 9000	78.1	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8	78.8	78.9	78.9	78.9	79.0
W 8000	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.3	79.3	79.3	79.4	79.4	79.4	79.5
W 7000	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.1	81.1	81.1	81.2	81.2	81.2	81.3
W 6000	81.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.2	82.2	82.2	82.3	82.3	82.3	82.4
W 5000	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.5	83.5	83.5	83.6	83.6	83.6	83.7
W 4500	83.4	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.6	84.6	84.6	84.7	84.7	84.7	84.8
W 4000	84.3	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	85.2	85.2	85.2	85.3	85.3	85.3	85.4
W 3500	84.9	85.8	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.6	86.6	86.6	86.7
W 3000	86.1	87.0	87.3	87.3	87.7	87.7	87.7	87.7	87.7	88.0	88.0	88.0	88.1	88.1	88.1	88.2
W 2500	86.7	87.8	88.2	88.2	88.6	88.6	88.7	88.7	88.7	88.9	88.9	88.9	89.0	89.0	89.0	89.2
W 2000	87.1	88.2	88.8	88.8	89.3	89.4	89.8	89.8	89.8	90.0	90.0	90.0	90.1	90.1	90.1	90.2
W 1800	87.5	88.7	89.3	89.3	89.9	90.0	90.4	90.4	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.8
W 1500	88.0	89.5	90.2	90.4	91.0	91.2	91.6	92.7	92.7	92.9	92.9	92.9	93.0	93.0	93.0	93.1
W 1200	88.4	90.2	91.4	91.8	92.5	92.8	93.4	94.7	94.7	94.9	94.9	94.9	95.1	95.1	95.1	95.2
W 1000	88.9	90.7	92.4	93.0	93.9	94.1	95.1	96.4	96.4	97.0	97.1	97.1	97.2	97.2	97.2	97.3
W 900	88.9	90.7	92.4	93.0	93.9	94.1	95.2	96.5	96.5	97.3	97.5	97.5	97.6	97.6	97.6	97.7
W 800	88.9	90.7	92.4	93.0	93.9	94.1	95.2	96.6	96.6	97.5	97.7	97.7	97.8	97.8	97.8	98.0
W 700	89.0	90.8	92.5	93.1	94.0	94.2	95.3	96.7	96.7	97.7	98.0	98.0	98.1	98.1	98.1	98.2
W 600	89.0	90.8	92.5	93.1	94.0	94.2	95.5	97.1	97.1	98.2	98.7	98.7	98.9	98.9	98.9	99.0
W 500	89.2	91.0	92.7	93.3	94.1	94.3	95.8	97.3	97.3	98.6	99.0	99.0	99.3	99.3	99.3	99.4
W 400	89.3	91.1	92.8	93.4	94.3	94.6	96.0	97.6	97.6	98.8	99.3	99.3	99.5	99.5	99.5	99.6
W 300	89.3	91.2	92.9	93.5	94.5	94.7	96.1	97.7	97.7	98.9	99.4	99.4	99.6	99.6	99.6	99.8
W 200	89.3	91.2	92.9	93.5	94.5	94.7	96.1	97.7	97.7	99.0	99.5	99.5	99.8	99.8	99.8	99.9
W 100	89.3	91.2	92.9	93.5	94.5	94.7	96.1	97.7	97.7	99.0	99.5	99.5	99.9	99.9	99.9	100.0
W 0	89.3	91.2	92.9	93.5	94.5	94.7	96.1	97.7	97.7	99.0	99.5	99.5	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 830

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

705690

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	58.7	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.5
≥ 20000	64.7	65.1	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.8
≥ 18000	64.7	65.1	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.8
≥ 16000	64.7	65.1	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.8
≥ 14000	65.4	65.8	65.9	66.1	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.5
≥ 12000	68.9	69.2	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	70.0
≥ 10000	72.9	73.3	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	74.0
≥ 9000	73.4	73.7	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.5
≥ 8000	74.3	74.4	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	75.1
≥ 7000	74.8	75.2	75.3	75.5	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.9
≥ 6000	76.4	76.8	76.9	77.0	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.8
≥ 5000	77.8	78.1	78.3	78.4	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	79.1
≥ 4500	78.1	78.6	78.8	78.9	79.2	79.2	79.2	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.9
≥ 4000	78.6	79.2	79.4	79.5	79.9	79.9	79.9	79.9	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.5
≥ 3500	79.4	80.1	80.2	80.3	80.8	80.8	80.8	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.4
≥ 3000	81.0	81.8	82.2	82.5	83.0	83.0	83.0	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.6
≥ 2500	81.8	82.7	83.2	83.5	84.0	84.0	84.2	84.4	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.9
≥ 2000	83.3	84.2	84.9	85.2	86.0	86.0	86.2	86.3	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.8
≥ 1800	83.3	84.2	84.9	85.3	86.1	86.1	86.3	86.4	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.9
≥ 1500	84.4	85.6	86.3	87.3	88.2	88.2	88.5	88.8	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.4
≥ 1200	85.2	87.1	88.0	89.1	90.4	90.8	91.5	91.9	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.6
≥ 1000	86.1	88.0	89.0	90.2	91.7	92.3	93.2	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.7
≥ 900	86.2	88.4	89.4	90.6	92.2	92.9	93.8	94.9	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.6
≥ 800	86.2	88.4	89.4	90.6	92.2	92.9	93.8	95.1	95.2	95.7	95.7	95.7	95.7	95.7	95.7	96.0
≥ 700	86.2	88.5	89.5	90.7	92.3	93.0	93.9	95.4	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.3
≥ 600	86.9	89.3	90.2	91.5	93.0	93.8	94.6	96.1	96.2	96.8	96.9	96.9	96.9	96.9	96.9	97.2
≥ 500	87.3	89.6	90.8	91.8	93.8	94.5	95.4	97.2	97.3	97.9	98.0	98.0	98.2	98.2	98.2	98.4
≥ 400	87.5	89.9	90.3	92.1	94.0	94.7	95.7	97.6	97.7	98.4	98.5	98.5	98.7	98.7	98.7	98.9
≥ 300	87.7	90.4	91.3	92.7	94.6	95.4	96.3	98.2	98.3	99.1	99.3	99.3	99.4	99.4	99.4	99.6
≥ 200	87.7	90.4	91.3	92.7	94.6	95.4	96.3	98.2	98.3	99.1	99.3	99.3	99.4	99.4	99.4	99.6
≥ 100	87.7	90.4	91.3	92.7	94.6	95.4	96.3	98.2	98.3	99.1	99.3	99.3	99.5	99.5	99.5	99.8
≥ 0	87.7	90.4	91.3	92.7	94.6	95.4	96.3	98.2	98.3	99.1	99.3	99.3	99.5	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 819

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES																
	≥ 10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	10
≥ 10000	57.1	57.4	57.5	57.6	57.6	57.6	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 8000	65.5	66.0	66.1	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 6000	65.5	66.0	66.1	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4000	66.8	67.3	67.4	67.5	67.6	67.6	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9
≥ 2000	70.4	70.9	71.0	71.1	71.2	71.2	71.2	71.2	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 1000	74.3	74.8	74.9	75.0	75.1	75.1	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4
≥ 800	75.8	76.4	76.5	76.6	76.7	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
≥ 600	76.8	77.4	77.6	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1
≥ 400	78.3	78.9	79.1	79.3	79.4	79.4	79.5	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7
≥ 200	79.7	80.4	80.6	80.7	80.8	80.9	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 100	81.0	81.6	81.8	82.0	82.1	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4
≥ 50	81.6	82.4	82.6	82.7	82.9	83.0	83.0	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 25	82.2	83.1	83.3	83.5	83.7	83.7	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0
≥ 10	82.8	83.8	84.2	84.3	84.5	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.9
≥ 5	83.8	85.0	85.5	85.8	86.1	86.1	86.2	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.5	86.5	86.5
≥ 2	84.4	85.7	86.3	86.6	87.0	87.0	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5
≥ 1	85.0	86.6	87.3	87.8	88.2	88.3	88.5	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 0.5	85.2	86.8	87.7	88.2	88.7	88.8	89.1	89.3	89.3	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5
≥ 0.25	85.6	87.5	88.5	89.2	89.8	90.0	90.4	90.8	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1
≥ 0.1	86.3	88.4	89.6	90.5	91.2	91.5	92.0	92.5	92.6	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9
≥ 0.05	86.6	88.8	90.1	91.1	92.0	92.3	93.2	93.8	93.9	94.3	94.4	94.4	94.4	94.4	94.5	94.5	94.5
≥ 0.025	86.6	89.0	90.2	91.2	92.3	92.6	93.5	94.3	94.4	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.1
≥ 0.01	86.6	89.1	90.5	91.6	92.9	93.3	94.2	95.3	95.4	96.0	96.2	96.2	96.2	96.2	96.3	96.3	96.3
≥ 0.005	86.7	89.3	90.7	91.8	93.1	93.5	94.4	95.5	95.6	96.3	96.5	96.5	96.5	96.5	96.6	96.6	96.6
≥ 0.0025	86.8	89.6	91.0	92.1	93.4	93.8	94.8	96.2	96.3	97.1	97.5	97.5	97.6	97.6	97.6	97.6	97.6
≥ 0.001	86.9	89.7	91.1	92.2	93.6	94.1	95.1	96.6	96.7	97.7	98.1	98.1	98.2	98.2	98.3	98.3	98.3
≥ 0.0005	87.0	89.9	91.4	92.5	93.9	94.4	95.5	97.0	97.1	98.2	98.6	98.6	98.8	98.8	98.8	98.8	98.9
≥ 0.00025	87.1	90.0	91.6	92.8	94.2	94.7	95.8	97.4	97.5	98.6	99.2	99.2	99.3	99.3	99.4	99.4	99.4
≥ 0.0001	87.1	90.1	91.6	92.8	94.3	94.8	96.0	97.5	97.6	98.8	99.4	99.4	99.6	99.6	99.6	99.6	99.7
≥ 0.00005	87.1	90.1	91.6	92.8	94.3	94.8	96.0	97.5	97.6	98.8	99.5	99.5	99.7	99.8	99.8	99.8	99.9
≥ 0.000025	87.1	90.1	91.6	92.8	94.3	94.8	96.0	97.5	97.6	98.8	99.5	99.5	99.7	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6570



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70569

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO. OF OBS.	60.4	61.6	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 2000	69.2	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 1800	69.6	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 1600	70.5	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 1400	72.9	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 1200	74.6	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 1000	75.5	76.7	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 800	77.1	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 600	78.3	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 400	79.0	80.3	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 200	79.7	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 100	80.3	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 50	80.6	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 25	81.4	82.9	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 10	82.1	83.6	83.6	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 5	82.5	84.1	84.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2	83.6	85.3	85.6	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1	83.8	85.9	86.3	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ .5	84.3	86.4	87.1	88.3	88.6	88.6	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ .25	84.9	88.2	89.0	90.3	90.6	90.6	90.6	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ .1	85.1	88.6	89.4	90.8	91.4	91.4	91.4	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ .05	85.1	88.6	89.4	90.8	91.8	91.8	91.8	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ .01	85.6	89.5	90.3	91.8	93.0	93.0	93.3	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ .001	85.6	89.6	90.4	92.1	93.4	93.4	93.7	94.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ .0001	85.9	89.9	90.8	92.6	94.1	94.2	94.4	95.6	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ .00001	86.3	90.4	91.4	93.3	95.4	95.6	96.0	96.8	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ .000001	86.3	90.4	91.4	93.3	95.4	95.7	96.6	97.7	98.0	98.9	99.1	99.1	99.1	99.1	99.1	99.1
≥ .0000001	86.3	90.4	91.5	93.4	95.6	95.8	96.8	97.8	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ .00000001	86.4	90.6	91.7	93.5	95.8	96.1	97.0	98.1	98.4	99.3	99.7	99.9	99.9	99.9	99.9	99.9
≥ .000000001	86.4	90.6	91.7	93.5	95.8	96.1	97.0	98.1	98.4	99.3	99.7	99.9	99.9	99.9	99.9	99.9
≥ .0000000001	86.4	90.6	91.7	93.5	95.8	96.1	97.0	98.1	98.4	99.3	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 743

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 5690 NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 7000	60.2	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 6000	68.7	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 5000	68.9	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4000	69.3	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 3000	70.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 2000	71.8	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 1000	75.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 900	76.1	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 800	77.1	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 700	78.5	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 600	79.4	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 500	80.1	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 450	80.6	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 400	81.3	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3500	81.8	83.2	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3000	83.3	84.9	85.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500	84.5	86.2	86.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2000	86.1	87.7	87.8	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 1800	86.1	87.8	88.0	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1500	86.2	88.0	88.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1200	86.6	89.7	90.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1000	87.0	90.4	90.9	92.1	92.4	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 900	87.0	90.4	91.2	92.5	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 800	87.0	90.9	91.4	92.9	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8
≥ 700	87.0	91.2	91.7	93.2	94.5	94.7	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2
≥ 600	87.4	92.0	92.9	94.5	95.9	96.0	96.4	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7
≥ 500	87.6	92.2	93.2	94.8	96.4	96.5	96.9	97.1	97.1	97.1	97.3	97.5	97.5	97.5	97.5	97.5
≥ 400	87.6	92.4	93.4	95.6	97.2	97.3	98.1	98.3	98.4	98.5	98.8	98.9	98.9	98.9	98.9	98.9
≥ 300	87.8	92.6	93.7	96.0	97.6	97.9	98.7	98.8	98.9	99.1	99.3	99.5	99.5	99.5	99.5	99.5
≥ 200	88.0	92.9	94.0	96.3	97.9	98.1	99.1	99.2	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	88.0	92.9	94.0	96.3	97.9	98.1	99.1	99.2	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥ 50	88.0	92.9	94.0	96.3	97.9	98.1	99.1	99.2	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 748

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	57.1	57.4	57.4	57.5	57.5	57.5	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2 2000	65.6	66.3	66.2	66.4	66.4	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
2 1800	65.8	66.2	66.5	66.6	66.6	66.6	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2 1500	66.3	66.4	66.6	66.8	66.8	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2 1400	66.8	67.2	67.4	67.6	67.6	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2 1200	71.0	71.4	71.7	71.8	71.8	71.8	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2 1000	74.9	75.3	75.6	75.7	75.7	75.7	75.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2 900	76.6	77.0	77.3	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2 800	78.0	78.4	78.8	78.9	78.9	78.9	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2 700	80.2	80.6	81.0	81.2	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2 600	81.1	81.4	81.8	82.0	82.0	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
2 500	81.6	82.0	82.4	82.5	82.6	82.6	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
2 400	82.6	83.0	83.4	83.6	83.7	83.7	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
2 300	83.6	84.0	84.4	84.5	84.6	84.6	84.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2 250	84.2	84.9	85.4	85.6	85.7	85.7	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2 200	85.4	86.4	87.2	87.3	87.6	87.7	87.7	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1
2 1800	85.8	86.9	88.0	88.3	88.7	88.8	88.8	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2
2 1500	86.1	87.2	88.4	88.9	89.5	89.6	89.6	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
2 1400	86.4	87.4	88.7	89.5	90.0	90.1	90.1	90.5	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.7
2 1200	86.5	87.7	89.2	90.3	90.9	91.2	91.3	91.7	91.7	92.0	92.1	92.1	92.1	92.1	92.1	92.1
2 1000	87.0	88.7	90.3	91.6	92.5	92.8	92.9	93.5	93.5	93.7	93.9	93.9	93.9	93.9	93.9	93.9
2 900	87.1	88.9	90.7	92.0	92.9	93.2	93.5	94.0	94.0	94.4	94.5	94.7	94.7	94.7	94.7	94.7
2 800	87.2	89.2	90.9	92.3	93.2	93.5	93.7	94.3	94.3	94.7	94.8	94.9	94.9	94.9	94.9	94.9
2 700	87.2	89.2	91.2	92.5	93.5	93.7	94.0	94.5	94.5	95.1	95.2	95.3	95.3	95.3	95.3	95.3
2 600	87.2	89.3	91.3	92.7	93.6	93.9	94.3	94.8	94.8	95.3	95.5	95.6	95.6	95.6	95.6	95.6
2 500	87.2	89.5	91.5	92.8	93.7	94.0	94.4	94.9	94.9	95.5	95.6	95.7	95.7	95.7	95.7	95.7
2 400	87.3	89.7	91.7	93.2	94.3	94.5	94.9	95.5	95.5	96.0	96.1	96.3	96.3	96.3	96.3	96.3
2 300	87.3	89.9	91.9	93.7	95.1	95.3	96.1	96.7	96.7	97.6	97.9	98.0	98.0	98.0	98.0	98.0
2 250	87.4	90.0	92.0	94.3	95.7	96.1	96.9	97.7	97.9	98.8	99.1	99.2	99.2	99.2	99.2	99.2
2 200	87.4	90.0	92.0	94.3	95.7	96.1	97.1	97.9	98.0	99.1	99.5	99.6	99.6	99.6	99.6	99.7
2 1800	87.4	90.0	92.0	94.3	95.7	96.1	97.1	97.9	98.0	99.1	99.6	99.7	99.7	99.7	99.7	99.9
2 1500	87.4	90.0	92.0	94.3	95.7	96.1	97.1	97.9	98.0	99.1	99.6	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 749

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

		VISIBILITY STATUTE MILES																
CEILING FEET		20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116
1	1000	56.2	56.5	56.5	57.0	57.3	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2	800	66.8	67.1	67.1	67.6	68.0	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
3	600	66.8	67.1	67.1	67.6	68.0	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
4	400	67.9	68.1	68.1	68.7	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
5	200	72.2	72.4	72.6	73.1	73.5	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
6	100	76.4	76.7	77.0	77.5	77.9	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
7	80	77.2	77.5	77.8	78.3	78.7	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
8	60	77.6	77.9	78.2	78.7	79.1	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
9	40	79.4	79.7	79.9	80.5	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
10	20	79.8	80.1	80.3	80.9	81.3	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
11	10	81.4	81.7	81.9	82.5	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
12	5	81.9	82.3	82.7	83.4	83.8	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
13	2	83.3	84.1	84.6	85.3	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
14	1	83.5	84.7	85.5	86.2	86.9	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
15	0	84.5	85.8	86.6	87.3	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
16	0	85.4	87.0	88.4	89.0	89.8	90.0	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5
17	0	86.3	88.1	89.8	90.5	91.3	91.4	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0
18	0	86.9	88.6	90.4	91.2	92.0	92.1	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6
19	0	87.6	89.3	91.0	91.8	92.6	92.8	93.2	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4
20	0	88.0	89.7	91.4	92.2	93.2	93.3	93.7	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
21	0	88.6	90.5	92.2	93.0	94.1	94.2	94.9	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6
22	0	89.1	90.9	92.8	93.6	94.6	94.8	95.4	96.1	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4
23	0	89.3	91.2	93.0	93.8	94.9	95.0	95.7	96.7	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
24	0	89.3	91.3	93.3	94.1	95.2	95.3	96.0	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
25	0	89.3	91.3	93.3	94.2	95.3	95.4	96.3	97.3	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
26	0	89.6	91.6	93.6	94.5	95.6	95.7	96.7	97.7	98.0	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
27	0	89.6	91.6	93.7	94.9	96.0	96.1	97.1	98.1	98.4	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.5
28	0	89.6	91.6	93.7	95.0	96.1	96.3	97.2	98.4	98.7	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.9
29	0	89.6	91.6	93.7	95.0	96.1	96.3	97.2	98.4	98.7	99.1	99.7	99.7	99.7	99.7	99.7	99.9	100.0
30	0	89.6	91.6	93.7	95.0	96.1	96.3	97.2	98.4	98.7	99.1	99.7	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 747

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

125697

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
≥10000	57.6	57.8	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.3
≥9000	71.3	71.8	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6
≥8000	71.4	72.0	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.8
≥7000	71.6	72.1	72.5	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9
≥6000	72.9	73.4	73.8	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2
≥5000	75.8	76.4	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.2
≥4000	78.2	78.8	79.2	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.5
≥3000	79.7	80.2	80.6	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0
≥2000	80.3	81.0	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8
≥1500	80.7	81.4	81.8	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2
≥1000	81.4	82.1	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.9
≥800	83.1	83.7	84.2	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6
≥600	83.8	84.6	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9
≥450	84.3	85.1	85.7	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5
≥350	85.1	86.3	86.9	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0
≥300	86.5	87.6	88.3	89.1	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.8
≥250	87.1	88.6	89.5	90.4	90.8	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥200	87.8	89.4	90.3	91.4	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3
≥180	88.1	90.2	91.1	92.2	92.6	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1
≥150	88.7	90.7	92.0	93.2	93.8	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
≥120	89.4	91.8	93.5	94.8	95.4	95.5	95.9	96.1	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.7
≥100	89.6	92.2	94.0	95.4	96.0	96.1	96.5	97.1	97.1	97.2	97.3	97.3	97.3	97.5	97.5	97.6
≥90	89.6	92.2	94.0	95.4	96.0	96.1	96.5	97.1	97.1	97.2	97.3	97.3	97.3	97.5	97.5	97.6
≥80	89.9	92.4	94.3	95.6	96.3	96.4	96.8	97.3	97.3	97.5	97.7	97.7	97.7	98.0	98.0	98.1
≥70	90.2	92.7	94.6	95.9	96.5	96.7	97.1	97.6	97.6	97.7	98.0	98.0	98.4	98.4	98.4	98.5
≥60	90.2	92.7	94.6	95.9	96.5	96.7	97.1	97.6	97.6	97.7	98.1	98.1	98.5	98.5	98.5	98.7
≥50	90.2	92.8	94.8	96.1	96.8	96.9	97.3	97.9	98.3	98.4	98.8	98.8	98.8	99.3	99.3	99.5
≥40	90.2	92.8	94.8	96.1	96.8	96.9	97.3	97.9	98.3	98.4	98.8	98.8	98.8	99.5	99.5	99.6
≥30	90.3	93.0	95.0	96.3	96.9	97.1	97.5	98.0	98.4	98.5	98.9	98.9	99.6	99.6	99.6	99.7
≥20	90.3	93.0	95.0	96.3	96.9	97.1	97.5	98.0	98.4	98.7	99.1	99.1	99.7	99.7	99.7	100.0
≥10	90.3	93.0	95.0	96.3	96.9	97.1	97.5	98.0	98.4	98.7	99.1	99.1	99.7	99.7	99.7	100.0
≥0	90.3	93.0	95.0	96.3	96.9	97.1	97.5	98.0	98.4	98.7	99.1	99.1	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS

753

USAF ETAC

FORM

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2

725690

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	54.7	54.9	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 2000	70.0	70.8	71.1	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 1800	70.1	70.9	71.2	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 1600	70.3	71.1	71.3	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 1400	71.7	72.5	72.8	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 1200	75.5	76.3	76.5	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 1000	78.9	79.7	80.0	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 900	80.8	81.6	81.9	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 800	82.0	82.8	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 700	83.2	84.0	84.3	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 600	83.5	84.3	84.5	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 500	84.4	85.2	85.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 450	84.8	85.6	85.9	86.1	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 400	86.0	86.9	87.2	87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 350	86.9	88.0	88.3	88.5	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 300	87.9	89.1	89.3	89.6	89.7	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 250	88.8	90.0	90.4	90.8	91.2	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 200	88.9	90.4	90.8	91.3	91.7	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 180	89.3	91.2	91.7	92.5	92.9	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 150	89.6	91.6	92.7	93.5	94.1	94.1	94.4	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 120	90.5	92.8	94.1	94.9	95.7	95.9	96.1	96.3	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100	90.7	92.9	94.4	95.2	96.1	96.3	96.7	96.8	96.8	97.2	97.7	97.7	97.7	97.9	97.9	97.9
≥ 90	90.7	92.9	94.4	95.2	96.1	96.3	96.7	96.8	96.8	97.2	97.7	97.7	97.7	97.9	97.9	97.9
≥ 80	90.7	92.9	94.4	95.2	96.1	96.3	96.7	96.8	96.8	97.2	97.7	97.7	97.7	97.9	97.9	97.9
≥ 70	90.7	92.9	94.4	95.2	96.1	96.3	96.7	96.8	96.8	97.2	97.7	97.7	97.7	97.9	97.9	97.9
≥ 60	90.8	93.1	94.5	95.3	96.3	96.5	96.9	97.3	97.3	98.0	98.8	98.8	98.8	99.1	99.1	99.1
≥ 50	90.8	93.5	94.9	95.7	96.7	96.9	97.3	97.7	97.7	98.4	99.2	99.2	99.2	99.5	99.5	99.5
≥ 40	90.8	93.6	95.1	95.9	96.8	97.1	97.5	97.9	97.9	98.8	99.6	99.6	99.6	99.9	99.9	99.9
≥ 30	90.8	93.6	95.1	95.9	96.8	97.1	97.5	97.9	97.9	98.8	99.6	99.6	99.6	100.0	100.0	100.0
≥ 20	90.8	93.6	95.1	95.9	96.8	97.1	97.5	97.9	97.9	98.8	99.6	99.6	99.6	100.0	100.0	100.0
≥ 10	90.8	93.6	95.1	95.9	96.8	97.1	97.5	97.9	97.9	98.8	99.6	99.6	99.6	100.0	100.0	100.0
≥ 0	90.8	93.6	95.1	95.9	96.8	97.1	97.5	97.9	97.9	98.8	99.6	99.6	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

750

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO. FEET	57.9	58.7	58.9	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 20000	67.8	68.6	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 18000	67.9	68.7	68.8	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 16000	68.3	69.1	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 14000	69.9	73.7	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 12000	72.4	73.2	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 10000	75.8	76.6	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 9000	77.8	78.6	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 8000	78.6	79.4	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 7000	80.0	80.8	81.0	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 6000	81.2	82.0	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000	82.4	83.4	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4500	82.6	83.5	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000	82.8	84.0	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	84.0	85.5	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 3000	84.6	86.2	86.8	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2500	85.4	87.1	88.0	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	86.4	88.5	89.5	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 1800	86.6	88.7	89.6	90.3	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1500	87.0	89.5	90.5	91.5	92.1	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1200	87.6	90.7	91.4	92.8	93.4	93.9	94.5	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	87.7	90.9	92.3	93.3	94.3	94.7	95.5	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	88.1	91.3	92.7	93.7	94.7	95.1	95.9	96.9	96.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	88.3	91.6	92.9	94.0	94.9	95.3	96.3	97.3	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	88.3	91.6	92.9	94.0	94.9	95.3	96.3	97.3	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	88.3	91.7	93.2	94.3	95.2	95.6	96.5	97.7	97.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.1	99.3	99.3	99.6	99.6	99.6	99.6
≥ 400	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.1	99.3	99.3	99.6	99.6	99.6	99.6
≥ 300	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.1	99.3	99.3	99.6	99.6	99.6	99.6
≥ 200	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.2	99.5	99.5	99.9	99.9	100.0	100.0
≥ 100	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.2	99.5	99.5	99.9	99.9	100.0	100.0
≥ 0	88.4	91.9	93.3	94.4	95.3	95.7	96.7	98.0	98.0	99.2	99.5	99.5	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 751

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING	58.7	58.8	58.8	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 20000	67.1	67.9	67.9	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	67.2	68.0	68.0	68.4	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 16000	67.5	68.3	68.3	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 14000	68.5	69.3	69.3	69.7	69.7	69.7	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 12000	70.7	71.5	71.5	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000	73.0	73.9	73.9	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 9000	74.2	75.1	75.1	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 8000	74.7	75.6	75.6	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 7000	76.0	77.0	77.0	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 6000	76.6	77.5	77.5	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000	77.5	78.6	78.7	79.1	79.1	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 4500	77.9	79.1	79.3	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4000	79.0	80.3	80.5	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 3500	79.9	81.4	81.5	81.9	81.9	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 3000	81.3	82.9	83.0	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 2500	81.9	83.9	84.2	84.7	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 2000	83.4	85.7	86.3	87.3	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1800	83.7	86.1	87.4	88.4	88.6	88.6	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1500	84.6	87.1	88.5	89.6	90.0	90.0	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1200	85.5	88.2	89.6	91.2	92.1	92.1	92.6	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000	86.1	88.8	90.2	91.8	93.0	93.0	93.6	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 900	86.6	89.7	91.2	92.8	94.0	94.0	94.5	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 800	86.7	90.0	91.6	93.2	94.4	94.4	94.6	95.4	96.3	96.4	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	87.0	90.8	92.4	94.0	95.2	95.4	96.4	97.2	97.5	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	87.0	90.8	92.4	94.0	95.2	95.7	96.7	97.5	97.7	98.7	98.7	98.7	98.8	98.9	98.9	98.9
≥ 500	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.7	98.0	99.3	99.3	99.3	99.5	99.6	99.6	99.6
≥ 400	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.9	98.1	99.5	99.6	99.6	99.7	99.9	99.9	99.9
≥ 300	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.9	98.1	99.5	99.7	99.7	99.7	99.9	100.0	100.0
≥ 200	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.9	98.1	99.5	99.7	99.7	99.7	99.9	100.0	100.0
≥ 100	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.9	98.1	99.5	99.7	99.7	99.7	99.9	100.0	100.0
≥ 0	87.0	90.9	92.5	94.1	95.3	95.9	96.8	97.9	98.1	99.5	99.7	99.7	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 747

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO. CEILINGS	57.8	58.3	58.4	58.7	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 20000	68.3	69.0	69.1	69.4	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 18000	68.4	69.1	69.3	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 16000	68.7	69.4	69.5	69.7	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 14000	69.8	70.5	70.6	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 12000	72.8	73.5	73.6	73.9	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 10000	75.9	76.6	76.8	77.0	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 9000	77.2	78.0	78.1	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 8000	78.2	78.9	79.1	79.3	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 7000	79.6	80.3	80.5	80.7	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 6000	80.2	81.0	81.2	81.4	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 5000	81.3	82.0	82.3	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4500	81.8	82.7	82.9	83.2	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 4000	82.6	83.6	83.9	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 3500	83.4	84.6	85.0	85.4	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 3000	84.4	85.8	86.2	86.7	86.9	86.9	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	85.2	86.7	87.4	88.0	88.3	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2000	86.1	87.4	88.6	89.3	89.7	89.7	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	86.4	88.2	89.1	90.0	90.4	90.4	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	86.8	88.8	89.9	90.9	91.4	91.5	91.7	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	87.5	90.0	91.2	92.4	93.1	93.2	93.5	93.9	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1000	87.7	90.4	91.8	93.0	93.8	93.9	94.4	94.9	94.9	95.0	95.2	95.2	95.2	95.2	95.2	95.2
≥ 900	87.9	90.7	92.1	93.3	94.2	94.3	94.8	95.3	95.3	95.6	95.7	95.7	95.7	95.8	95.8	95.8
≥ 800	88.1	91.0	92.4	93.6	94.7	94.9	95.4	96.0	96.0	96.4	96.6	96.6	96.7	96.7	96.7	96.7
≥ 700	88.2	91.2	92.6	93.9	94.9	95.1	95.7	96.3	96.4	96.8	97.0	97.0	97.1	97.1	97.1	97.1
≥ 600	88.3	91.4	92.9	94.2	95.3	95.5	96.1	96.8	96.9	97.3	97.6	97.6	97.7	97.7	97.7	97.7
≥ 500	88.4	91.6	93.2	94.5	95.7	96.0	96.6	97.3	97.5	98.0	98.3	98.3	98.5	98.5	98.5	98.5
≥ 400	88.4	91.7	93.3	94.8	96.0	96.3	97.0	97.8	98.0	98.7	99.0	99.1	99.2	99.3	99.3	99.3
≥ 300	88.5	91.8	93.4	94.9	96.2	96.5	97.2	98.1	98.2	99.0	99.4	99.4	99.6	99.6	99.7	99.7
≥ 200	88.5	91.8	93.4	95.0	96.2	96.5	97.3	98.2	98.3	99.1	99.6	99.6	99.8	99.8	99.9	99.9
≥ 100	88.5	91.8	93.4	95.0	96.2	96.5	97.3	98.2	98.3	99.1	99.6	99.6	99.8	99.9	99.9	100.0
≥ 0	88.5	91.8	93.4	95.0	96.2	96.5	97.3	98.2	98.3	99.1	99.6	99.6	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5988

USAF ETAC

FORM 10-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
≥ 1000	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 900	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 800	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 700	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 600	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 500	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 400	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 300	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 200	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 100	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 50	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 25	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 15	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 5	77.8	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 2	80.7	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 1	80.6	81.3	81.4	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 0.5	81.7	82.6	82.8	82.8	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 0.25	81.8	83.4	83.5	83.9	84.2	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 0.1	82.3	84.2	84.6	85.0	85.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 0.05	83.6	85.9	86.7	87.4	87.9	88.3	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 0.025	84.4	87.2	88.3	89.0	89.6	90.0	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 0.01	85.2	88.1	89.2	90.0	90.6	91.0	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 0.005	85.8	89.4	90.8	91.6	92.2	92.5	93.4	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 0.0025	86.4	90.1	91.6	92.3	93.3	93.6	94.5	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 0.001	86.7	90.6	92.2	92.9	94.0	94.4	95.3	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 0.0005	87.0	91.4	93.0	93.8	94.9	95.2	96.3	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 0.00025	87.5	92.1	93.6	94.5	95.6	96.0	97.2	97.8	97.9	98.0	98.3	98.4	98.4	98.4	98.4	98.4
≥ 0.0001	87.7	92.3	94.0	95.0	96.2	96.6	97.8	98.4	98.5	98.7	98.9	99.0	99.1	99.1	99.1	99.1
≥ 0.00005	87.7	92.3	94.0	95.0	96.2	96.6	97.8	98.4	98.5	98.7	98.9	99.0	99.1	99.1	99.1	99.1
≥ 0.000025	87.7	92.3	94.0	95.0	96.2	96.6	97.8	98.4	98.5	98.7	98.9	99.0	99.1	99.1	99.1	99.1
≥ 0.00001	87.7	92.3	94.0	95.0	96.2	96.6	97.8	98.4	98.5	98.7	98.9	99.0	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 818

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. PER HOUR	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 2000	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
W 1800	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
W 1600	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
W 1400	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
W 1200	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
W 1000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
W 900	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
W 800	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
W 700	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
W 600	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
W 500	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
W 450	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
W 400	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
W 350	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
W 300	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
W 250	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
W 200	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
W 180	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
W 150	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
W 100	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
W 90	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
W 80	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
W 70	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
W 60	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
W 50	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
W 40	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
W 30	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
W 20	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
W 10	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
W 0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3

TOTAL NUMBER OF OBSERVATIONS

824

USAF ETAC

FORM 101-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

705691 NATRONA CO/CASPER WY  
STATION NAME

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥1.5	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.9
≥ 20000	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.9
≥ 18000	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.9
≥ 16000	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.9
≥ 14000	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.7
≥ 12000	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.4
≥ 10000	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	67.1
≥ 9000	67.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.9
≥ 8000	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.4
≥ 7000	70.1	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	71.0
≥ 6000	72.1	72.4	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.3
≥ 5000	73.4	73.8	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.4	74.4	74.4	74.4	74.6
≥ 4500	74.6	75.0	75.1	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.8
≥ 4000	75.5	75.9	76.1	76.1	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.8
≥ 3500	75.8	76.5	76.7	76.8	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.4	77.4	77.4	77.6
≥ 3000	76.5	77.4	77.6	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.5	78.5	78.5	78.5	78.7
≥ 2500	77.3	78.1	78.4	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.2	79.2	79.2	79.2	79.5
≥ 2000	78.4	79.7	80.3	80.6	81.0	81.2	81.3	81.3	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.8
≥ 1800	78.6	80.1	80.9	81.2	81.7	81.8	81.9	82.0	82.0	82.0	82.1	82.3	82.3	82.3	82.3	82.5
≥ 1500	79.3	80.9	81.8	82.0	82.7	82.9	83.2	83.6	83.6	84.0	84.1	84.1	84.1	84.1	84.1	84.3
≥ 1200	80.3	82.5	83.7	84.1	84.9	85.1	85.9	86.5	86.5	87.0	87.1	87.1	87.1	87.1	87.1	87.4
≥ 1000	80.9	83.4	84.7	85.4	86.3	86.4	87.4	88.1	88.1	88.7	88.8	88.8	88.8	88.8	88.8	89.1
≥ 900	81.2	83.7	85.2	85.9	86.8	86.9	88.1	88.9	88.9	89.6	89.7	89.7	89.7	89.7	89.7	89.9
≥ 800	81.8	84.8	86.1	87.2	88.3	88.6	89.9	90.9	90.9	91.9	92.1	92.1	92.3	92.3	92.3	92.6
≥ 700	81.9	84.9	86.6	87.8	89.1	89.3	90.6	91.6	91.6	92.8	93.2	93.2	93.4	93.4	93.4	93.7
≥ 600	82.0	85.2	87.1	88.3	89.7	89.9	91.3	92.2	92.2	93.4	94.3	94.3	94.5	94.5	94.5	94.8
≥ 500	82.1	85.8	87.8	89.1	90.6	90.9	92.5	93.4	93.4	95.1	96.1	96.1	96.5	96.5	96.5	96.7
≥ 400	82.4	86.5	88.6	89.9	91.9	92.1	93.9	95.0	95.0	96.8	97.9	97.9	98.7	98.7	98.7	98.9
≥ 300	82.4	86.5	88.6	90.0	92.0	92.2	94.0	95.3	95.3	97.1	98.2	98.2	98.9	98.9	99.0	99.4
≥ 200	82.4	86.5	88.6	90.0	92.0	92.2	94.0	95.3	95.3	97.1	98.3	98.3	99.1	99.1	99.3	99.6
≥ 100	82.4	86.5	88.6	90.0	92.0	92.2	94.0	95.3	95.3	97.1	98.3	98.3	99.1	99.1	99.4	99.8
≥ 0	82.4	86.5	88.6	90.0	92.0	92.2	94.0	95.3	95.3	97.3	98.5	98.5	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7.569 NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

HEIGHT FEET	VISIBILITY - STATUTE MILES															
	20	26	30	34	38	42	46	50	54	58	62	66	70	74	78	80
NO CEILING	55.1	55.3	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.6
≥ 2000	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 1800	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 1600	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 1400	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0
≥ 1200	67.8	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.4
≥ 1000	69.5	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1
≥ 900	70.1	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.8
≥ 800	71.0	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.6
≥ 700	71.4	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0
≥ 600	72.6	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2
≥ 500	74.6	75.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.4
≥ 450	75.2	75.6	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1
≥ 400	76.1	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9
≥ 350	76.6	76.9	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4
≥ 300	77.7	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.6
≥ 250	78.4	79.0	79.4	79.4	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7
≥ 200	80.2	81.3	82.0	82.4	82.6	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0
≥ 180	80.8	81.9	82.8	83.1	83.5	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0
≥ 150	81.3	83.1	84.7	85.2	85.7	85.7	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.4
≥ 120	82.6	84.8	86.4	86.9	87.5	87.6	88.1	88.1	88.2	88.7	88.7	88.7	88.7	88.7	88.7	88.8
≥ 100	83.5	85.8	87.7	88.5	89.6	89.8	90.3	90.3	90.4	91.3	91.3	91.3	91.3	91.3	91.3	91.4
≥ 90	83.6	85.9	88.0	88.7	89.9	90.2	90.8	90.8	90.9	91.7	91.7	91.7	91.7	91.7	91.7	91.9
≥ 80	84.1	86.5	89.0	89.7	90.9	91.1	91.9	92.0	92.1	93.2	93.3	93.3	93.3	93.6	93.6	93.7
≥ 70	84.5	86.9	89.6	90.4	91.6	91.9	92.6	93.1	93.2	94.4	94.5	94.5	94.5	94.8	94.8	94.9
≥ 60	84.7	87.6	90.4	91.3	92.8	93.2	93.9	94.7	94.8	96.1	96.2	96.2	96.2	96.7	96.7	96.8
≥ 50	84.8	88.0	90.8	91.7	93.4	93.8	94.5	95.3	95.5	97.1	97.2	97.2	97.2	98.1	98.1	98.2
≥ 40	84.8	88.0	90.9	91.9	93.7	94.1	94.8	95.5	95.8	97.5	97.6	97.6	97.6	98.9	98.9	99.0
≥ 30	84.8	88.0	90.9	91.9	93.7	94.1	94.8	95.5	95.8	97.8	98.2	98.2	98.2	99.5	99.5	99.6
≥ 20	84.8	88.0	90.9	91.9	93.7	94.1	94.8	95.5	95.8	97.8	98.2	98.2	98.2	99.6	99.6	99.9
≥ 10	84.8	88.0	90.9	91.9	93.7	94.1	94.8	95.5	95.8	97.8	98.2	98.2	98.2	99.6	99.6	99.9
≥ 0	84.8	88.0	90.9	91.9	93.7	94.1	94.8	95.5	95.8	97.8	98.2	98.2	98.2	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 20000	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 12000	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 6000	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 5000	74.6	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	76.7	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 4000	78.4	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 3500	79.8	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000	81.2	81.4	81.5	81.5	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 2500	82.9	83.1	83.5	83.5	83.6	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 2000	84.7	85.2	86.3	86.4	86.8	86.8	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800	85.7	86.1	87.2	87.4	87.7	87.7	88.0	88.0	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1500	86.9	87.6	89.1	89.2	89.6	89.6	89.8	89.8	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1200	88.5	89.8	91.6	91.9	92.3	92.3	92.7	92.7	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1000	89.1	90.9	93.3	93.6	94.0	94.0	94.4	94.5	94.7	95.0	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	89.3	91.4	93.8	94.0	94.5	94.5	94.9	95.3	95.4	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	89.4	91.6	94.0	94.3	94.8	94.8	95.1	95.6	95.7	96.6	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700	89.6	91.9	94.3	94.5	95.0	95.0	95.4	95.9	96.0	97.1	97.6	97.6	97.6	97.6	97.6	97.6
≥ 600	89.7	92.0	94.4	94.7	95.1	95.1	95.6	96.1	96.2	97.4	97.9	97.9	98.1	98.3	98.3	98.3
≥ 500	89.7	92.1	94.7	94.9	95.4	95.4	96.0	96.8	97.0	98.2	98.7	98.7	99.1	99.4	99.4	99.4
≥ 400	89.8	92.2	94.8	95.0	95.5	95.5	96.1	97.0	97.1	98.3	98.9	98.9	99.4	99.6	99.6	99.6
≥ 300	89.8	92.2	94.8	95.0	95.5	95.5	96.1	97.0	97.1	98.3	99.1	99.1	99.6	99.9	99.9	99.9
≥ 200	89.8	92.2	94.8	95.0	95.5	95.5	96.1	97.0	97.1	98.3	99.1	99.1	99.6	99.9	100.0	100.0
≥ 100	89.8	92.2	94.8	95.0	95.5	95.5	96.1	97.0	97.1	98.3	99.1	99.1	99.6	99.9	100.0	100.0
≥ 0	89.8	92.2	94.8	95.0	95.5	95.5	96.1	97.0	97.1	98.3	99.1	99.1	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	48.1	48.0	48.0	48.0	48.1	48.1	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2 2500	60.8	60.8	60.8	60.8	60.9	60.9	61.0	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2
2 1800	61.1	61.0	61.0	61.0	61.2	61.2	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2 1600	61.2	61.2	61.2	61.2	61.3	61.3	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2 1400	63.1	63.1	63.1	63.1	63.2	63.2	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
2 1200	68.4	68.4	68.4	68.4	68.5	68.5	68.6	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2 1000	70.3	70.3	70.3	70.3	70.4	70.4	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7
2 900	70.9	70.9	70.9	70.9	71.0	71.0	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3
2 800	71.0	71.0	71.0	71.0	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2 700	71.7	71.7	71.7	71.7	71.8	71.8	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2 600	72.9	72.9	72.9	72.9	73.0	73.0	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2
2 500	76.4	76.4	76.4	76.4	76.5	76.5	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2 4500	78.9	78.9	78.9	78.9	79.0	79.0	79.1	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3
2 4000	80.2	80.3	80.3	80.3	80.5	80.5	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2 3500	82.5	82.6	82.6	82.6	82.9	82.9	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2 3000	84.2	84.3	84.6	84.6	84.8	84.8	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2 2500	85.9	86.4	86.6	86.6	87.0	87.0	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
2 2000	87.8	88.7	89.0	89.1	89.6	89.6	89.7	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2 1800	88.7	89.7	90.1	90.2	90.7	90.7	90.8	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2 1500	89.4	90.7	91.2	91.3	92.0	92.0	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2 1200	91.2	92.6	93.2	93.4	94.2	94.2	94.5	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2 1000	91.7	93.4	94.1	94.3	95.2	95.2	95.4	95.5	95.5	96.0	96.0	96.0	96.0	96.1	96.1	96.1
2 900	91.8	93.5	94.2	94.5	95.3	95.4	95.7	95.9	95.9	96.5	96.6	96.6	96.7	96.7	96.7	96.7
2 800	91.9	93.6	94.3	94.6	95.4	95.5	95.8	96.0	96.0	97.0	97.3	97.3	97.5	97.5	97.5	97.5
2 700	91.9	93.8	94.6	94.8	95.7	95.8	96.0	96.3	96.3	97.3	97.9	97.9	98.2	98.2	98.2	98.2
2 600	92.0	94.0	94.7	94.9	95.8	95.9	96.1	96.5	96.5	97.6	98.3	98.3	98.6	98.6	98.6	98.6
2 500	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.1	99.2	99.2	99.4	99.4	99.4	99.4
2 400	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.2	99.4	99.4	99.6	99.6	99.6	99.6
2 300	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.2	99.4	99.4	99.6	99.6	99.6	99.6
2 200	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.2	99.4	99.4	99.6	99.6	99.6	99.6
2 100	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.2	99.4	99.4	99.6	99.6	99.6	99.6
2 0	92.2	94.1	94.8	95.2	96.0	96.1	96.4	96.7	96.7	98.2	99.4	99.4	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 829

USAF ETAC

FORM

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	55.7	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1
≥ 20000	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 18000	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 16000	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 14000	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2
≥ 12000	68.9	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9
≥ 10000	71.5	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.8
≥ 9000	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.6
≥ 8000	72.6	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9
≥ 7000	75.1	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5
≥ 6000	76.8	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2
≥ 5000	79.1	79.3	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6
≥ 4500	80.5	80.6	80.7	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0
≥ 4000	82.3	82.1	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 3500	83.3	83.7	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0
≥ 3000	84.8	85.1	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6
≥ 2500	85.6	86.2	86.3	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8
≥ 2000	86.6	87.7	88.0	88.2	88.4	88.4	88.5	88.5	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.8
≥ 1800	87.1	88.3	88.9	89.0	89.4	89.4	89.5	89.5	89.5	89.5	89.8	89.8	89.8	89.8	89.8	89.9
≥ 1600	88.3	89.8	90.6	90.7	91.5	91.5	91.7	91.7	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.1
≥ 1400	89.5	91.1	92.0	92.1	92.9	92.9	93.4	93.5	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.9
≥ 1200	89.8	91.3	92.2	92.3	93.3	93.4	94.3	94.8	94.8	95.2	95.2	95.2	95.4	95.4	95.4	95.5
≥ 1000	90.0	91.6	92.4	92.7	93.7	93.8	94.9	95.6	95.6	96.2	96.2	96.2	96.3	96.3	96.3	96.5
≥ 900	90.0	92.0	92.9	93.2	94.1	94.3	95.4	96.2	96.2	96.8	96.8	96.8	97.0	97.0	97.0	97.1
≥ 800	90.0	92.0	92.9	93.2	94.1	94.3	95.5	96.3	96.3	97.0	97.2	97.2	97.4	97.4	97.4	97.6
≥ 700	90.1	92.1	93.2	93.5	94.5	94.6	95.9	96.7	96.7	97.3	97.7	97.7	97.9	97.9	97.9	98.0
≥ 600	90.5	92.7	93.8	94.1	95.1	95.2	96.6	97.6	97.6	98.2	98.7	98.7	99.0	99.0	99.0	99.1
≥ 500	90.5	92.7	93.8	94.1	95.1	95.2	96.6	97.6	97.6	98.2	98.8	98.8	99.1	99.1	99.1	99.3
≥ 400	90.9	93.0	94.1	94.5	95.5	95.6	97.0	97.9	97.9	98.7	99.3	99.3	99.6	99.6	99.6	99.8
≥ 300	90.9	93.0	94.1	94.5	95.5	95.6	97.0	97.9	97.9	98.7	99.4	99.4	99.8	99.8	99.9	100.0
≥ 200	90.9	93.0	94.1	94.5	95.5	95.6	97.0	97.9	97.9	98.7	99.4	99.4	99.8	99.8	99.9	100.0
≥ 100	90.9	93.0	94.1	94.5	95.5	95.6	97.0	97.9	97.9	98.7	99.4	99.4	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
1000	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.3
900	53.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.9	63.9	63.9	64.0
800	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.9	63.9	63.9	64.0
700	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.9	63.9	63.9	64.0
600	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.9	64.9	64.9	65.0
500	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.7	67.7	67.7	67.9
400	69.9	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.3	70.3	70.3	70.4
300	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.8	71.8	71.9	71.9	71.9	72.0
200	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.9	72.9	73.0	73.0	73.0	73.1
100	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.0	75.0	75.1	75.1	75.1	75.2
0	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.0	76.0	76.1	76.1	76.1	76.2
1000	77.5	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	78.0	78.0	78.2	78.2	78.2	78.3
900	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.1	79.1	79.3	79.3	79.3	79.4
800	80.0	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.6	80.6	80.7	80.7	80.7	80.9
700	80.4	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.1	81.1	81.2	81.2	81.2	81.3
600	82.2	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.2	83.2	83.3	83.3	83.3	83.4
500	83.3	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.9	84.9	85.0	85.0	85.0	85.2
400	84.3	85.2	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.6	86.6	86.6	86.7
300	84.7	85.8	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.2	87.2	87.4	87.4	87.4	87.5
200	85.0	86.1	87.1	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.9	87.9	88.0	88.1	88.1	88.2
100	86.3	87.5	89.1	89.6	90.1	90.2	90.2	90.2	90.6	90.6	90.9	90.9	91.0	91.2	91.2	91.3
0	87.4	88.7	90.4	90.9	91.5	91.7	91.7	92.4	92.5	92.9	93.0	93.1	93.3	93.3	93.3	93.4
1000	88.1	89.7	91.5	92.0	92.6	92.8	92.8	93.5	93.6	94.1	94.4	94.5	94.6	94.6	94.6	94.7
900	88.6	90.7	92.5	93.0	93.7	93.9	93.9	94.7	94.8	95.3	95.6	95.7	95.8	95.8	95.8	96.0
800	88.7	90.9	92.9	93.4	94.4	94.5	94.5	95.3	95.5	96.0	96.2	96.3	96.4	96.4	96.4	96.6
700	88.8	91.3	93.3	93.9	95.0	95.1	95.2	96.1	96.2	96.7	96.9	97.1	97.2	97.2	97.2	97.3
600	89.1	91.5	93.5	94.1	95.2	95.3	95.5	96.3	96.4	96.9	97.2	97.3	97.4	97.4	97.4	97.5
500	89.0	92.4	94.5	95.1	96.2	96.3	96.4	97.3	97.4	98.0	98.3	98.4	98.7	98.8	98.8	98.9
400	89.9	92.5	94.6	95.2	96.4	96.6	96.7	97.5	97.7	98.4	98.7	98.8	99.0	99.1	99.3	99.4
300	89.9	92.5	94.6	95.2	96.4	96.6	96.8	97.7	97.8	98.5	98.9	99.0	99.5	99.8	99.9	100.0
200	89.9	92.5	94.6	95.2	96.4	96.6	96.8	97.7	97.8	98.5	98.9	99.0	99.5	99.8	99.9	100.0
100	89.9	92.5	94.6	95.2	96.4	96.6	96.8	97.7	97.8	98.5	98.9	99.0	99.5	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 815

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70569

NATRONA CO/CASPER WY

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

		VISIBILITY - STATUTE MILES															
		20	20	25	24	23	22	22	21	21	20	20	20	20	20	20	20
CEILING - FEET	FEET	20	20	25	24	23	22	22	21	21	20	20	20	20	20	20	20
1000	1000	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8	54.9
2000	2000	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.8
3000	3000	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.9
4000	4000	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.9
5000	5000	66.5	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.9
6000	6000	68.9	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.3
7000	7000	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.2
8000	8000	70.6	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0
9000	9000	71.9	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4
10000	10000	73.4	73.5	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.9
11000	11000	75.4	75.6	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	76.0
12000	12000	76.7	76.9	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.4
13000	13000	77.9	78.1	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.6
14000	14000	78.8	79.2	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.7	79.7	79.7	79.8
15000	15000	80.2	80.7	80.9	81.0	81.1	81.1	81.1	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.4
16000	16000	81.4	82.0	82.3	82.4	82.6	82.6	82.6	82.6	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.9
17000	17000	82.7	83.7	84.3	84.4	84.8	84.8	84.9	84.9	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.2
18000	18000	83.2	84.4	85.1	85.3	85.7	85.7	85.8	85.8	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.2
19000	19000	84.0	85.4	86.3	86.6	87.1	87.1	87.4	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.8
20000	20000	85.3	87.1	88.3	88.6	89.3	89.4	89.9	90.0	90.1	90.3	90.4	90.4	90.4	90.4	90.4	90.5
21000	21000	86.0	88.0	89.5	89.9	90.8	90.9	91.5	91.8	91.8	92.3	92.3	92.4	92.4	92.4	92.4	92.5
22000	22000	86.3	88.5	89.9	90.5	91.3	91.5	92.1	92.5	92.6	93.1	93.2	93.2	93.3	93.3	93.3	93.4
23000	23000	86.7	89.2	90.8	91.3	92.2	92.4	93.1	93.7	93.7	94.4	94.7	94.7	94.8	94.8	94.8	95.0
24000	24000	86.9	89.5	91.2	91.8	92.8	93.0	93.6	94.3	94.3	95.1	95.5	95.5	95.7	95.7	95.7	95.8
25000	25000	87.1	89.8	91.7	92.3	93.4	93.6	94.4	95.1	95.1	95.9	96.4	96.4	96.6	96.7	96.7	96.8
26000	26000	87.4	90.4	92.2	92.9	94.1	94.3	95.1	95.9	95.9	96.9	97.4	97.4	97.8	97.8	97.8	97.9
27000	27000	87.6	90.7	92.7	93.4	94.7	94.9	95.8	96.5	96.6	97.7	98.3	98.4	98.8	98.9	98.9	99.0
28000	28000	87.7	90.9	92.9	93.6	94.9	95.1	96.0	96.8	96.9	98.0	98.7	98.8	99.3	99.3	99.4	99.5
29000	29000	87.7	90.9	92.9	93.6	94.9	95.2	96.1	96.9	96.9	98.1	98.8	98.9	99.5	99.6	99.7	99.8
30000	30000	87.7	90.9	92.9	93.6	95.0	95.2	96.1	96.9	97.0	98.2	98.9	99.0	99.6	99.7	99.8	99.9
31000	31000	87.7	90.9	92.9	93.6	95.0	95.2	96.1	96.9	97.0	98.2	98.9	99.0	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

6576

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0
NO CEILING	54.1	54.2	54.2	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8
≥ 2000	60.1	60.2	60.2	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8
≥ 1800	60.1	60.2	60.2	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8
≥ 1600	60.3	60.4	60.4	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.1	61.1
≥ 1400	60.7	60.8	60.8	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.5	61.5
≥ 1200	62.2	62.3	62.3	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	63.0	63.0
≥ 1000	64.9	65.0	65.0	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6
≥ 800	66.5	66.7	66.7	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3
≥ 600	68.1	68.2	68.2	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8
≥ 400	69.2	69.3	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	70.0	70.0
≥ 200	71.4	71.5	71.5	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1
≥ 100	74.2	74.3	74.3	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9
≥ 50	74.8	74.9	74.9	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6
≥ 25	76.5	76.6	76.6	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2
≥ 10	77.4	77.5	77.5	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1
≥ 5	78.9	79.1	79.1	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.8	79.8
≥ 2	80.7	80.9	80.9	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.6	81.6
≥ 1	82.3	82.8	83.0	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7
≥ 0.5	82.8	83.5	83.6	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.4	84.4
≥ 0.25	84.5	85.2	85.4	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1
≥ 0.1	86.4	87.5	87.8	88.3	88.4	88.4	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9
≥ 0.05	87.0	88.3	88.8	89.3	89.9	90.1	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8	90.8
≥ 0.025	87.0	88.7	89.2	89.7	90.7	91.0	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.7	91.7
≥ 0.01	87.5	89.8	90.6	91.2	92.2	92.5	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4
≥ 0.005	87.8	90.3	91.1	91.7	93.0	93.3	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 0.0025	87.9	90.5	91.5	92.1	93.5	93.8	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.7	94.7
≥ 0.001	87.9	90.5	91.7	92.4	93.8	94.0	94.5	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.2	95.2
≥ 0.0005	88.2	91.6	93.1	93.9	95.4	95.8	96.4	96.7	96.7	97.2	97.5	97.5	97.5	97.7	97.8	97.8
≥ 0.00025	88.3	91.7	93.3	94.0	95.7	96.1	96.8	97.1	97.1	97.6	97.8	97.8	98.2	98.2	98.5	98.5
≥ 0.0001	88.3	91.7	93.6	94.4	96.1	96.4	97.3	97.6	97.6	98.1	98.3	98.3	98.9	98.9	99.2	99.4
≥ 0.00005	88.3	91.7	93.6	94.4	96.1	96.4	97.3	97.6	97.6	98.1	98.3	98.3	99.0	99.0	99.4	99.5
≥ 0.000025	88.3	91.7	93.6	94.4	96.1	96.4	97.3	97.6	97.6	98.1	98.3	98.3	99.0	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 786

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	56.5	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 2000	62.3	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1800	62.3	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1600	62.4	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 1400	62.8	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 1200	63.6	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 1000	66.8	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 900	67.5	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 800	68.2	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 700	70.2	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 600	71.5	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 500	73.8	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 450	74.1	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 400	75.2	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 350	76.5	77.4	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 300	78.6	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 250	80.5	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 200	82.3	84.0	84.1	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 180	82.7	84.5	84.6	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 150	83.5	85.8	86.1	86.3	86.8	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 120	84.5	87.0	87.4	87.8	88.4	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 100	84.7	87.3	87.8	88.3	88.9	89.0	89.3	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 90	84.9	87.4	88.0	88.5	89.3	89.5	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 80	85.1	87.6	88.5	89.0	89.8	90.0	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 70	85.6	88.5	89.7	90.3	91.4	91.7	91.9	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 60	85.8	88.7	89.9	90.5	91.7	91.9	92.3	92.7	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 50	86.0	88.9	90.3	91.0	92.4	92.7	93.2	93.6	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 40	86.1	89.5	91.0	91.8	93.3	93.6	94.1	94.6	94.7	95.3	95.8	95.8	95.8	95.8	95.8	95.8
≥ 30	86.6	90.0	91.7	92.4	94.1	94.3	94.8	95.5	95.6	96.3	97.0	97.0	97.0	97.4	97.4	97.4
≥ 20	86.6	90.2	91.8	92.6	94.3	94.6	95.1	96.1	96.2	97.2	97.9	97.9	98.0	98.4	98.4	98.5
≥ 10	86.6	90.2	91.8	92.6	94.3	94.6	95.1	96.1	96.2	97.2	98.0	98.0	98.0	98.1	98.5	98.9
≥ 0	86.6	90.2	91.8	92.6	94.3	94.6	95.1	96.1	96.2	97.2	98.0	98.0	98.0	98.1	98.6	99.0

TOTAL NUMBER OF OBSERVATIONS 793

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	53.4	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.1	54.3	54.3	54.4	54.4	54.4	54.8
≥ 20000	59.2	59.8	59.9	59.9	60.1	60.1	60.2	60.2	60.2	60.3	60.4	60.4	60.6	60.6	60.6	61.1
≥ 18000	59.2	59.8	59.9	59.9	60.1	60.1	60.2	60.2	60.2	60.3	60.4	60.4	60.6	60.6	60.6	61.1
≥ 16000	59.2	59.8	59.9	59.9	60.1	60.1	60.2	60.2	60.2	60.3	60.4	60.4	60.6	60.6	60.6	61.1
≥ 14000	59.5	60.2	60.3	60.3	60.4	60.4	60.6	60.6	60.6	60.7	60.8	60.8	60.9	60.9	60.9	61.4
≥ 12000	61.3	61.9	62.1	62.1	62.2	62.2	62.3	62.3	62.3	62.4	62.6	62.6	62.7	62.7	62.7	63.2
≥ 10000	63.9	64.6	64.7	64.7	64.8	64.8	64.9	64.9	64.9	65.1	65.2	65.2	65.3	65.3	65.3	65.8
≥ 9000	65.6	66.2	66.3	66.3	66.5	66.5	66.6	66.6	66.6	66.7	66.8	66.8	67.0	67.0	67.0	67.5
≥ 8000	67.1	67.7	67.8	67.8	68.0	68.0	68.1	68.1	68.1	68.2	68.3	68.3	68.5	68.5	68.5	69.0
≥ 7000	68.8	69.5	69.6	69.6	69.7	69.7	69.8	69.8	69.8	70.0	70.1	70.1	70.2	70.2	70.2	70.7
≥ 6000	70.1	70.7	70.9	70.9	71.0	71.0	71.1	71.1	71.1	71.2	71.4	71.4	71.5	71.5	71.5	72.0
≥ 5000	71.5	72.1	72.2	72.2	72.4	72.4	72.5	72.5	72.5	72.6	72.7	72.7	72.9	72.9	72.9	73.4
≥ 4500	72.1	72.6	72.7	72.7	72.9	72.9	73.0	73.0	73.0	73.1	73.2	73.2	73.4	73.4	73.4	73.9
≥ 4000	72.6	73.2	73.4	73.4	73.5	73.5	73.6	73.6	73.6	73.7	73.9	73.9	74.0	74.0	74.0	74.5
≥ 3500	74.2	74.9	75.0	75.0	75.1	75.1	75.3	75.3	75.3	75.5	75.6	75.6	75.8	75.8	75.8	76.3
≥ 3000	76.8	77.4	77.5	77.6	77.9	77.9	78.0	78.0	78.0	78.3	78.4	78.4	78.5	78.5	78.5	79.0
≥ 2500	78.3	79.4	79.5	79.9	80.0	80.0	80.2	80.2	80.2	80.4	80.5	80.5	80.7	80.7	80.7	81.2
≥ 2000	79.9	81.7	82.0	82.5	82.8	82.8	82.9	82.9	82.9	83.2	83.3	83.3	83.4	83.4	83.4	83.9
≥ 1800	80.0	81.8	82.3	82.9	83.2	83.2	83.3	83.3	83.3	83.5	83.7	83.7	83.8	83.8	83.8	84.3
≥ 1500	81.2	83.0	83.5	84.1	84.5	84.5	84.7	84.8	84.8	85.2	85.3	85.3	85.4	85.4	85.4	85.9
≥ 1200	81.9	83.9	84.4	85.1	85.7	85.7	85.9	86.2	86.2	86.6	86.7	86.7	86.8	86.8	86.8	87.3
≥ 1000	82.2	84.7	85.3	86.2	86.6	86.6	86.8	87.3	87.3	87.8	87.9	87.9	88.1	88.1	88.1	88.6
≥ 900	82.7	85.4	86.1	87.2	87.6	87.6	87.8	88.3	88.3	88.8	88.9	88.9	89.1	89.1	89.1	89.6
≥ 800	83.4	86.2	87.1	88.3	88.7	88.7	88.9	89.6	89.6	90.2	90.3	90.3	90.5	90.5	90.5	91.0
≥ 700	83.5	86.7	87.7	89.1	89.4	89.4	89.7	90.5	90.6	91.3	91.5	91.5	91.6	91.6	91.6	92.1
≥ 600	84.2	87.3	88.4	89.8	90.2	90.2	90.5	91.2	91.3	92.2	92.3	92.3	92.5	92.5	92.5	93.0
≥ 500	84.4	87.6	88.8	90.3	91.0	91.0	91.2	92.1	92.2	93.2	93.7	93.7	93.8	93.8	93.8	94.3
≥ 400	84.7	87.8	89.2	91.0	91.7	91.7	92.0	92.8	93.0	94.1	94.8	94.8	95.2	95.2	95.2	95.7
≥ 300	84.7	87.8	89.2	91.0	91.7	91.8	92.1	93.0	93.1	94.3	95.1	95.2	95.7	95.9	95.9	96.6
≥ 200	84.7	87.8	89.2	91.0	91.8	92.0	92.5	93.3	93.5	95.5	96.4	96.5	97.1	97.2	97.2	98.1
≥ 100	84.7	87.8	89.2	91.0	91.8	92.0	92.5	93.3	93.5	95.6	96.6	96.7	97.6	97.7	98.0	99.4
≥ 0	84.7	87.8	89.2	91.0	91.8	92.0	92.5	93.3	93.5	95.6	96.6	96.7	97.6	97.7	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 796

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥20000	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥18000	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥16000	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥14000	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥12000	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥10000	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥9000	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥8000	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥7000	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥6000	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥5000	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥4500	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥4000	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥3500	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥3000	78.8	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥2500	80.9	81.7	81.8	81.8	81.8	81.8	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥2000	83.8	84.7	84.8	84.8	84.9	84.9	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥1800	84.5	85.4	85.6	85.6	85.7	85.7	86.2	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥1500	85.7	86.7	86.8	86.9	87.2	87.2	87.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥1200	86.2	87.6	87.7	87.8	88.2	88.3	89.2	89.9	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1
≥1000	86.9	88.6	88.7	88.8	89.3	89.4	90.3	91.5	91.5	91.8	92.1	92.1	92.1	92.1	92.1	92.1
≥900	87.6	89.3	89.4	89.6	90.2	90.3	91.3	92.5	92.5	92.8	93.2	93.3	93.3	93.3	93.3	93.3
≥800	88.1	89.9	90.2	90.3	91.1	91.2	92.3	93.7	93.7	94.2	95.1	95.4	95.4	95.4	95.4	95.4
≥700	88.1	90.1	90.3	90.5	91.3	91.5	92.7	94.1	94.1	94.6	95.5	95.7	95.7	95.7	95.7	95.7
≥600	88.3	90.3	90.6	90.7	91.6	91.7	93.0	94.3	94.3	95.1	96.0	96.2	96.2	96.2	96.2	96.2
≥500	88.7	90.7	91.0	91.1	92.0	92.1	93.3	94.8	94.8	95.7	96.7	97.1	97.2	97.4	97.4	97.4
≥400	88.9	91.0	91.3	91.5	92.3	92.5	93.7	95.4	95.4	96.2	97.2	97.6	97.9	98.2	98.2	98.2
≥300	89.1	91.1	91.5	91.6	92.6	92.7	94.0	95.6	95.6	96.5	97.5	97.9	98.1	98.6	99.1	99.1
≥200	89.1	91.1	91.5	91.6	92.6	92.7	94.0	95.6	95.6	96.5	97.5	97.9	98.4	98.9	99.5	99.5
≥100	89.1	91.1	91.5	91.6	92.6	92.7	94.0	95.6	95.6	96.5	97.5	97.9	98.7	99.2	99.9	100.0
≥0	89.1	91.1	91.5	91.6	92.6	92.7	94.0	95.6	95.6	96.5	97.5	97.9	98.7	99.2	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARAPR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)1200-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ 0
NO CEILING	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 25000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 15000	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 14000	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 12000	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 10000	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 9000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 7000	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 6000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 5000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4500	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 4000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 3500	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3000	83.5	83.8	83.9	83.9	83.9	83.9	83.9	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 2500	86.6	86.8	87.0	87.0	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 2000	88.7	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1800	89.2	89.6	89.9	89.9	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1500	90.1	90.8	91.3	91.3	91.5	91.5	91.6	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1200	91.5	92.8	93.3	93.4	93.7	93.8	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	91.9	93.2	93.7	93.8	94.1	94.2	94.4	94.9	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	91.9	93.4	93.9	94.1	94.4	94.7	94.9	95.7	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	91.9	93.5	94.2	94.3	94.9	95.3	95.6	96.6	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	91.9	93.5	94.2	94.3	95.1	95.4	95.7	96.8	97.0	97.5	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	91.9	93.5	94.2	94.3	95.1	95.4	95.7	96.8	97.0	97.6	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	92.0	93.7	94.3	94.4	95.2	95.6	95.8	97.0	97.1	97.7	98.1	98.1	98.2	98.2	98.2	98.2
≥ 400	92.0	93.7	94.3	94.4	95.2	95.6	96.1	97.2	97.3	98.0	98.4	98.4	98.7	98.9	98.9	98.9
≥ 300	92.0	93.7	94.3	94.4	95.2	95.6	96.1	97.2	97.3	98.0	98.5	98.5	98.9	99.1	99.4	99.4
≥ 200	92.0	93.7	94.3	94.4	95.2	95.6	96.1	97.2	97.3	98.0	98.5	98.5	99.0	99.2	99.5	99.9
≥ 100	92.0	93.7	94.3	94.4	95.2	95.6	96.1	97.2	97.3	98.0	98.5	98.5	99.1	99.4	99.6	100.0
≥ 0	92.0	93.7	94.3	94.4	95.2	95.6	96.1	97.2	97.3	98.0	98.5	98.5	99.1	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 790

USAF ETAC

FORM  
1 JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

APR

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 20000	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 18000	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 16000	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 14000	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 12000	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 10000	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 8000	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 7000	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 6000	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 5000	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 4000	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3500	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 3000	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2500	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2000	88.3	89.6	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	89.1	90.4	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1500	89.7	91.1	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	90.9	92.6	93.2	93.3	93.8	93.8	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1000	91.1	93.3	93.8	94.0	94.7	94.7	94.8	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 900	91.1	93.4	94.2	94.4	95.2	95.3	95.6	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 800	91.3	93.7	94.4	94.8	95.6	95.7	96.1	96.6	96.6	97.2	97.2	97.3	97.3	97.3	97.3	97.3
≥ 700	91.3	93.7	94.4	94.8	95.6	95.7	96.1	96.6	96.6	97.3	97.3	97.5	97.5	97.5	97.5	97.5
≥ 600	91.3	93.7	94.4	94.8	95.6	95.7	96.1	96.6	96.6	98.1	98.1	98.4	98.4	98.4	98.4	98.4
≥ 500	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	98.9	98.9	99.1	99.1	99.1	99.1	99.1
≥ 400	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	99.0	99.0	99.2	99.5	99.7	99.7	99.7
≥ 300	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	99.0	99.0	99.2	99.6	99.9	99.9	99.9
≥ 200	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	99.0	99.0	99.2	99.6	100.0	100.0	100.0
≥ 100	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	99.0	99.0	99.2	99.6	100.0	100.0	100.0
≥ 0	91.3	93.8	94.6	94.9	95.8	95.9	96.6	97.3	97.3	99.0	99.0	99.2	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 789

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥ 20000	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
18000	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
16000	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
14000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
12000	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
10000	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
9000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
8000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
7000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
6000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
5000	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.6
4500	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.1
4000	83.3	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7
3500	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2
3000	86.0	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6
2500	86.6	87.9	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3
2000	87.5	89.3	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.6
1800	87.8	89.6	89.8	89.8	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3
1500	88.5	90.8	91.2	91.4	91.7	91.7	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3
1200	89.4	92.2	93.2	93.6	93.8	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
1000	89.5	92.6	93.6	93.9	94.3	94.3	94.7	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.3
900	89.8	92.8	93.9	94.4	94.9	94.9	95.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.1
800	89.9	93.2	94.3	94.8	95.3	95.3	95.8	96.3	96.5	96.8	97.0	97.1	97.1	97.1	97.1	97.2
700	90.0	93.3	94.4	94.9	95.4	95.4	96.1	96.6	96.7	97.2	97.5	97.6	97.6	97.6	97.6	97.7
600	90.2	93.4	94.6	95.2	95.8	95.8	96.3	96.8	97.0	97.5	97.9	98.0	98.0	98.0	98.0	98.1
500	90.2	93.4	94.7	95.3	96.0	96.0	96.5	97.3	97.5	98.1	98.6	98.7	98.7	98.7	98.7	98.9
400	90.3	93.6	94.8	95.5	96.1	96.1	96.6	97.5	97.6	98.2	99.0	99.1	99.2	99.2	99.2	99.4
300	90.3	93.8	95.1	95.8	96.5	96.5	97.1	98.0	98.1	98.7	99.6	99.7	99.9	99.9	99.9	100.0
200	90.3	93.8	95.1	95.8	96.5	96.5	97.1	98.0	98.1	98.7	99.6	99.7	99.9	99.9	99.9	100.0
100	90.3	93.8	95.1	95.8	96.5	96.5	97.1	98.0	98.1	98.7	99.6	99.7	99.9	99.9	99.9	100.0
0	90.3	93.8	95.1	95.8	96.5	96.5	97.1	98.0	98.1	98.7	99.6	99.7	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 792

USAF ETAC

FORM  
1-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 16000	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 14000	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 12000	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 10000	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9
≥ 9000	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4
≥ 8000	72.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4
≥ 7000	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8
≥ 6000	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0
≥ 5000	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2
≥ 4500	80.0	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000	81.0	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3500	81.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4
≥ 3000	82.4	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2500	83.7	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2000	84.7	86.5	86.5	86.5	86.6	86.6	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9
≥ 1800	84.9	86.6	86.8	86.8	86.9	86.9	87.0	87.0	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500	85.5	87.8	88.0	88.2	88.3	88.3	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1200	86.9	90.2	90.6	90.7	90.8	90.8	91.3	91.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000	87.2	90.6	91.1	91.3	91.6	91.7	92.6	93.0	93.0	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 900	87.4	90.8	91.5	91.7	92.0	92.1	93.1	93.8	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 800	87.9	91.7	92.5	92.7	93.0	93.1	94.3	94.9	94.9	95.5	95.7	95.7	95.7	95.7	95.7	95.7
≥ 700	88.3	92.5	93.3	93.4	94.0	94.3	95.7	96.3	96.3	97.2	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	88.9	93.1	93.9	94.3	94.7	94.9	96.4	97.2	97.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5
≥ 500	89.1	93.3	94.3	94.7	95.0	95.3	96.8	97.7	97.7	99.0	99.1	99.1	99.2	99.2	99.2	99.2
≥ 400	89.1	93.5	94.5	94.9	95.3	95.5	97.1	98.1	98.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 300	89.1	93.5	94.5	94.9	95.3	95.5	97.1	98.1	98.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 200	89.1	93.5	94.5	94.9	95.3	95.5	97.1	98.1	98.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 100	89.1	93.5	94.5	94.9	95.3	95.5	97.1	98.1	98.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 0	89.1	93.5	94.5	94.9	95.3	95.5	97.1	98.1	98.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 786

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64
NO CEILING	50.7	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.4
≥ 20000	59.9	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4
≥ 18000	59.9	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4
≥ 16000	60.0	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5
≥ 14000	60.5	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0
≥ 12000	62.8	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.3	63.3
≥ 10000	65.5	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0
≥ 9000	66.6	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2
≥ 8000	67.7	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2
≥ 7000	69.3	69.5	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8
≥ 6000	71.0	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.6
≥ 5000	75.0	75.3	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.6
≥ 4500	76.1	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7
≥ 4000	77.6	78.1	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4
≥ 3500	79.3	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.1
≥ 3000	81.3	81.8	81.9	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.3
≥ 2500	83.0	83.8	83.9	84.0	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.4
≥ 2000	84.7	85.9	86.1	86.2	86.4	86.4	86.4	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.7
≥ 1800	85.1	86.4	86.6	86.8	87.0	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.3
≥ 1600	86.1	87.6	88.0	88.2	88.5	88.5	88.7	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.1
≥ 1400	87.2	89.2	89.7	90.0	90.3	90.4	90.7	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥ 1200	87.6	89.8	90.3	90.7	91.2	91.2	91.7	92.1	92.1	92.4	92.5	92.5	92.5	92.5	92.5	92.6
≥ 1000	87.8	90.2	90.8	91.2	91.8	91.9	92.4	92.9	92.9	93.3	93.3	93.3	93.3	93.3	93.4	93.4
≥ 900	88.1	90.7	91.5	91.9	92.6	92.7	93.3	93.9	93.9	94.4	94.5	94.6	94.6	94.6	94.6	94.7
≥ 800	88.3	91.1	91.9	92.4	93.2	93.3	93.9	94.6	94.7	95.2	95.4	95.4	95.5	95.5	95.5	95.6
≥ 700	88.5	91.3	92.2	92.7	93.5	93.7	94.3	95.1	95.1	95.8	96.0	96.1	96.1	96.1	96.1	96.2
≥ 600	88.7	91.5	92.4	93.0	93.9	94.1	94.7	95.6	95.6	96.4	96.8	96.9	96.9	96.9	97.0	97.0
≥ 500	88.8	91.8	92.9	93.5	94.4	94.6	95.3	96.2	96.3	97.2	97.7	97.8	98.0	98.1	98.1	98.2
≥ 400	88.9	91.9	93.0	93.6	94.6	94.8	95.6	96.5	96.5	97.5	98.1	98.1	98.4	98.6	98.7	98.8
≥ 300	88.9	91.9	93.1	93.7	94.7	94.9	95.7	96.6	96.7	97.8	98.3	98.5	98.8	99.0	99.2	99.4
≥ 200	88.9	91.9	93.1	93.7	94.7	94.9	95.7	96.6	96.7	97.8	98.4	98.5	99.0	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6328

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY  
STATION NAME73-81  
YEARMAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)0000-0200  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
20000	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
18000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
16000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
14000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
12000	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
10000	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
9000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
8000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
7000	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
6000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
5000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4500	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
4000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
3500	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
3000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2500	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
2000	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
1800	87.3	87.7	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1500	88.0	89.1	89.3	89.3	89.3	89.3	89.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
1200	88.2	89.7	90.0	90.0	90.3	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
1000	88.5	90.2	90.7	90.7	90.9	90.9	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
900	88.7	90.4	90.9	90.9	91.3	91.3	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
800	89.0	91.0	91.6	91.6	92.0	92.1	92.7	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1
700	89.0	91.4	92.0	92.0	92.4	92.5	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4
600	89.2	91.7	92.5	92.6	93.0	93.1	93.7	93.8	93.9	94.1	94.3	94.3	94.4	94.4	94.4	94.4
500	89.9	92.8	93.7	93.8	94.2	94.3	94.9	95.3	95.4	95.6	95.9	95.9	96.0	96.0	96.0	96.0
400	90.5	93.8	94.8	94.9	95.4	95.6	96.2	96.6	96.7	97.0	97.2	97.2	97.3	97.3	97.3	97.3
300	90.8	94.2	95.4	95.5	96.2	96.5	97.2	97.7	97.8	98.2	98.4	98.4	98.5	98.5	98.5	98.5
200	91.0	94.5	95.9	96.0	96.8	97.1	97.8	98.3	98.5	98.9	99.3	99.3	99.4	99.4	99.4	99.4
100	91.0	94.5	95.9	96.0	96.8	97.1	97.8	98.3	98.5	98.9	99.3	99.3	99.6	99.6	99.6	99.9
0	91.0	94.5	95.9	96.0	96.8	97.1	97.8	98.3	98.5	98.9	99.3	99.3	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2

72569 NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4
2 20000	66.7	66.7	66.7	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0
2 18000	66.7	66.7	66.7	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0
2 16000	66.7	66.7	66.7	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0
2 14000	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3
2 12000	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5
2 10000	72.8	72.8	72.8	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1	73.1
2 8000	75.0	75.0	75.0	75.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3
2 6000	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1
2 4000	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3
2 2000	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3
2 1000	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1
2 500	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.6
2 400	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.1	81.1
2 350	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2
2 300	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.3	83.3
2 250	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0
2 200	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1
2 1800	85.3	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6
2 1600	86.1	86.6	86.8	87.0	87.2	87.2	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.7	87.7
2 1400	87.5	88.2	88.6	88.8	89.2	89.2	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.6	89.6
2 1200	87.7	88.6	88.9	89.2	89.6	89.6	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.1
2 1000	88.1	88.9	89.5	89.8	90.3	90.3	90.6	90.7	90.7	90.9	90.9	90.9	90.9	90.9	91.0	91.0
2 800	88.3	89.3	89.9	90.4	90.9	91.0	91.8	92.0	92.0	92.1	92.2	92.2	92.2	92.2	92.3	92.3
2 600	88.3	89.3	89.9	90.4	91.0	91.2	92.2	92.3	92.3	92.3	92.4	92.8	92.8	92.8	92.9	92.9
2 400	88.8	89.8	90.5	91.0	91.8	92.1	93.1	93.3	93.3	93.4	93.8	93.8	93.8	93.8	93.9	93.9
2 300	89.3	90.5	91.4	91.8	92.8	93.1	94.2	94.4	94.4	94.5	94.9	94.9	94.9	94.9	95.0	95.0
2 200	89.6	91.5	92.3	92.9	94.3	94.8	96.0	96.2	96.2	96.3	96.7	96.7	96.7	96.7	96.8	96.8
2 1800	89.6	91.6	92.6	93.2	94.6	95.1	96.7	97.1	97.1	97.6	97.9	97.9	98.1	98.1	98.2	98.2
2 1600	89.9	92.0	93.5	94.3	96.1	96.6	98.3	98.7	98.7	99.1	99.6	99.6	99.8	99.8	99.9	99.9
2 1400	89.9	92.0	93.5	94.3	96.1	96.6	98.3	98.7	98.7	99.1	99.6	99.6	99.8	99.8	99.9	99.9
2 1200	89.9	92.0	93.5	94.3	96.1	96.6	98.3	98.7	98.7	99.1	99.6	99.6	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 821

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

6600-0800

		VISIBILITY - STATUTE MILES															
		10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	57.2	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.7
2	900	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.1
3	800	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.1
4	700	67.1	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6
5	600	69.3	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.7	69.7	69.8
6	500	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.3
7	400	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.4
8	300	74.3	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.7	74.7	74.8
9	200	75.2	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.6
10	100	76.1	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.5	76.5	76.6
11	000	77.3	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.8
12	1000	77.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.3
13	900	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9	79.0
14	800	80.5	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.1
15	700	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.9	81.9	82.0
16	600	82.5	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.1	83.1	83.2
17	500	83.3	83.4	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.2	84.2	84.3
18	400	83.6	83.8	84.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.7	84.7	84.8
19	300	84.8	85.3	85.7	86.0	86.4	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.8
20	200	85.6	86.1	87.0	87.2	87.6	87.7	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
21	100	86.7	87.2	88.1	88.6	89.0	89.2	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.9	89.9	90.0
22	000	87.5	87.9	88.8	89.3	89.9	90.0	90.3	90.6	90.6	90.6	90.6	90.7	90.7	90.9	90.9	91.0
23	1000	88.1	88.6	89.6	90.3	90.9	91.0	91.4	92.0	92.0	92.0	92.0	92.3	92.3	92.4	92.4	92.6
24	900	88.6	89.2	90.5	91.1	91.8	92.0	92.3	92.9	92.9	93.1	93.8	93.8	93.9	93.9	94.0	94.0
25	800	89.0	89.6	91.0	91.7	92.7	92.8	93.3	94.0	94.0	94.2	94.9	94.9	95.2	95.2	95.4	95.4
26	700	89.3	90.4	91.7	92.6	93.5	93.7	94.2	94.9	94.9	95.0	95.7	95.7	95.7	96.1	96.1	96.2
27	600	89.4	90.6	92.0	93.1	94.2	94.3	94.8	95.5	95.5	95.7	96.6	96.6	97.0	97.0	97.1	97.1
28	500	89.4	90.7	92.1	93.2	94.4	94.5	95.1	95.9	95.9	96.5	97.8	97.8	98.3	98.3	98.4	98.4
29	400	89.5	91.0	92.7	93.8	95.1	95.2	95.9	96.7	96.7	97.4	98.9	98.9	99.6	99.6	99.8	99.8
30	300	89.5	91.0	92.7	93.8	95.1	95.2	95.9	96.7	96.7	97.4	98.9	98.9	99.6	99.6	99.8	99.8
31	200	89.5	91.0	92.7	93.8	95.1	95.2	95.9	96.7	96.7	97.4	98.9	98.9	99.6	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

821



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO FLOOR	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥20000	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥18000	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥16000	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥14000	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥12000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥10000	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥9000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥8000	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥7000	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥6000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥5000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥4500	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥4000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥3500	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥3000	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥2500	84.8	85.1	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥2000	86.5	86.8	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥1800	87.3	87.7	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥1500	89.0	89.4	89.5	89.6	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥1200	89.6	90.1	90.5	90.7	91.0	91.0	91.0	91.2	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5
≥1000	90.5	91.3	91.8	92.1	92.6	92.6	92.6	92.9	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4
≥900	91.0	92.0	92.4	92.7	93.3	93.3	93.4	93.8	93.8	94.1	94.3	94.3	94.3	94.3	94.3	94.3
≥800	91.5	92.8	93.3	93.9	94.5	94.5	94.8	95.1	95.1	95.5	95.6	95.6	95.6	95.6	95.6	95.6
≥700	91.8	93.0	93.7	94.4	95.0	95.0	95.2	95.6	95.6	96.1	96.2	96.2	96.2	96.2	96.2	96.2
≥600	91.6	93.2	93.9	94.6	95.5	95.5	95.7	96.2	96.2	96.7	97.0	97.0	97.1	97.1	97.1	97.1
≥500	91.6	93.3	94.0	94.9	95.7	95.7	96.1	96.6	96.7	97.2	97.4	97.4	97.6	97.6	97.6	97.6
≥400	91.6	93.4	94.3	95.1	96.0	96.1	96.5	97.2	97.3	97.8	98.2	98.2	98.3	98.4	98.4	98.4
≥300	91.6	93.4	94.4	95.2	96.1	96.2	96.6	97.3	97.4	97.9	98.7	98.7	98.8	99.0	99.0	99.0
≥200	91.6	93.4	94.4	95.2	96.1	96.2	96.6	97.3	97.6	98.0	98.9	98.9	99.8	100.0	100.0	100.0
≥100	91.6	93.4	94.4	95.2	96.1	96.2	96.6	97.3	97.6	98.0	98.9	98.9	99.8	100.0	100.0	100.0
≥0	91.6	93.4	94.4	95.2	96.1	96.2	96.6	97.3	97.6	98.0	98.9	98.9	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

820

USAF ETAC

FORM 12-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 2000	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 1800	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 1600	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 1400	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1200	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 1000	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 900	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 800	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 700	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 600	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 500	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 450	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 400	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 350	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 300	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 250	89.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 200	90.5	91.1	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 180	91.4	92.0	92.1	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 150	91.6	92.3	92.4	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 120	92.5	93.1	93.4	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 100	92.9	93.6	94.3	94.7	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 90	93.0	93.7	94.7	95.1	95.4	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 80	93.2	94.0	95.1	95.6	95.9	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 70	93.2	94.2	95.6	96.3	96.7	96.8	96.8	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 60	93.2	94.3	95.7	96.6	97.2	97.3	97.3	97.8	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 50	93.6	94.7	96.3	97.2	97.8	97.9	97.9	98.2	98.2	98.4	98.5	98.5	98.5	98.5	98.5	98.5
≥ 40	93.6	95.0	96.6	97.4	98.0	98.2	98.2	98.4	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8
≥ 30	93.6	95.0	96.7	97.5	98.2	98.3	98.3	98.5	98.5	98.8	99.0	99.0	99.1	99.1	99.1	99.1
≥ 20	93.7	95.1	96.8	97.7	98.3	98.4	98.4	98.6	98.6	98.9	99.3	99.4	99.5	100.0	100.0	100.0
≥ 10	93.7	95.1	96.8	97.7	98.3	98.4	98.4	98.6	98.6	98.9	99.3	99.4	99.5	100.0	100.0	100.0
≥ 0	93.7	95.1	96.8	97.7	98.3	98.4	98.4	98.6	98.6	98.9	99.3	99.4	99.5	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 813

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 20000	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 18000	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 16000	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 14000	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 9000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 8000	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 7000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 6000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 5000	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4500	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 4000	87.0	87.0	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 3500	88.4	88.4	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000	89.9	90.2	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2500	91.5	92.0	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 2000	91.8	92.4	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1800	91.9	92.5	92.8	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	92.1	92.7	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	92.6	93.3	93.8	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	93.3	94.4	95.3	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 900	93.5	94.5	95.4	95.9	95.9	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 800	93.5	94.7	95.8	96.4	96.4	96.5	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 700	93.7	94.9	96.1	96.7	96.7	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	93.7	94.9	96.1	96.7	96.7	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500	94.1	95.4	96.8	97.5	97.6	97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	94.1	95.4	96.8	97.7	97.9	98.1	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.7	98.7	98.7
≥ 300	94.2	95.5	97.0	97.8	98.1	98.2	98.5	98.8	98.8	99.3	99.4	99.4	99.5	99.5	99.5	99.5
≥ 200	94.2	95.5	97.0	97.8	98.1	98.2	98.7	98.9	98.9	99.4	99.5	99.5	99.5	99.8	99.8	99.8
≥ 100	94.2	95.5	97.1	97.9	98.2	98.3	98.8	99.0	99.0	99.5	99.6	99.6	99.6	99.9	100.0	100.0
≥ 0	94.2	95.5	97.1	97.9	98.2	98.3	98.8	99.0	99.0	99.5	99.6	99.6	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 825

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569D  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 20000	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 18000	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 16300	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 14000	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 12000	65.2	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 10000	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 9000	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 8000	74.8	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 7000	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 6000	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 5000	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4500	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4000	87.6	87.6	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3500	88.5	88.6	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3000	90.8	90.9	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2500	91.9	92.0	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000	92.2	92.5	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1800	92.3	92.6	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	92.6	92.8	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1200	93.1	93.4	94.3	94.4	94.4	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	93.2	93.7	94.7	94.8	95.0	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	93.2	93.8	94.8	94.9	95.1	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 800	93.6	94.2	95.1	95.3	95.5	95.6	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	93.6	94.4	95.6	95.7	96.0	96.1	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 600	93.7	94.7	95.9	96.0	96.2	96.5	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 500	93.9	95.1	96.5	96.7	97.0	97.2	97.6	97.8	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	93.9	95.3	96.6	96.8	97.1	97.4	97.9	98.3	98.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	93.9	95.4	96.7	97.0	97.3	97.7	98.4	98.8	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200	93.9	95.4	96.7	97.0	97.4	97.8	98.7	99.0	99.1	99.3	99.8	99.8	99.8	99.9	99.9	99.9
≥ 100	93.9	95.4	96.8	97.1	97.6	97.9	98.8	99.1	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	93.9	95.4	96.8	97.1	97.6	97.9	98.8	99.1	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 823

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. FLIGHTS	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥20000	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥18000	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥16000	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥14000	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥12000	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥10000	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥9000	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥8000	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥7000	75.7	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥6000	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥5000	79.9	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥4500	82.1	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥4000	83.7	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥3500	85.2	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥3000	86.3	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥2500	87.1	88.0	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥2000	88.9	90.1	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥1800	89.3	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥1500	89.8	91.1	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥1200	90.5	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥1000	90.9	92.4	92.9	93.0	93.0	93.0	93.0	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥900	91.5	93.3	93.8	93.9	94.0	94.0	94.1	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥800	92.1	94.0	94.6	95.0	95.1	95.1	95.2	95.5	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥700	92.1	94.0	94.6	95.0	95.1	95.1	95.2	95.5	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥600	92.7	94.6	95.5	95.9	96.0	96.0	96.1	96.5	96.7	96.8	97.0	97.0	97.0	97.0	97.0	97.0
≥500	92.7	95.0	96.0	96.3	96.5	96.5	96.7	97.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7
≥400	92.9	95.2	96.3	96.7	96.8	97.1	97.3	97.7	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥300	93.0	95.5	96.7	97.1	97.3	97.6	98.0	98.4	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥200	93.0	95.5	96.7	97.1	97.3	97.6	98.0	98.4	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥100	93.0	95.5	96.7	97.1	97.3	97.6	98.0	98.4	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥0	93.0	95.5	96.7	97.1	97.3	97.6	98.0	98.4	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 820

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 20000	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 18000	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.6
IV 16000	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.6	61.6
IV 14000	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 12000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 10000	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 9000	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 8000	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 7000	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 6000	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2
IV 5000	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.5
IV 4500	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 4000	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8
IV 3500	84.2	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.6
IV 3000	85.9	86.1	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 2500	87.1	87.4	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
IV 2000	88.1	88.5	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0
IV 1800	88.5	89.0	89.2	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5
IV 1500	89.2	89.9	90.2	90.3	90.5	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1200	89.9	90.7	91.2	91.4	91.6	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0
IV 1000	90.5	91.4	92.1	92.3	92.6	92.7	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 900	90.8	91.8	92.5	92.8	93.1	93.2	93.4	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
IV 800	91.1	92.3	93.1	93.5	93.9	94.0	94.3	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8
IV 700	91.2	92.6	93.5	94.0	94.3	94.4	94.8	95.1	95.1	95.2	95.4	95.4	95.4	95.4	95.4	95.4
IV 600	91.5	92.9	93.9	94.4	94.9	95.0	95.4	95.7	95.7	95.9	96.1	96.1	96.2	96.2	96.2	96.2
IV 500	91.8	93.4	94.5	95.1	95.6	95.8	96.2	96.5	96.6	96.8	97.0	97.0	97.1	97.1	97.1	97.1
IV 400	92.0	93.8	95.0	95.6	96.2	96.4	96.9	97.3	97.4	97.6	97.9	97.9	98.0	98.0	98.0	98.0
IV 300	92.0	93.9	95.2	95.8	96.5	96.8	97.4	97.8	97.9	98.2	98.7	98.7	98.8	98.8	98.9	98.9
IV 200	92.1	94.0	95.5	96.1	96.9	97.1	97.8	98.2	98.4	98.8	99.3	99.3	99.7	99.8	99.8	99.8
IV 100	92.1	94.0	95.5	96.1	96.9	97.2	97.8	98.3	98.4	98.8	99.4	99.4	99.8	99.8	99.9	99.9
IV 0	92.1	94.0	95.5	96.1	96.9	97.2	97.8	98.3	98.4	98.8	99.4	99.4	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6567

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725693 NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 20000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 18000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 16000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 14000	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 12000	81.3	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 10000	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 9000	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 8000	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 7000	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000	90.4	90.4	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 5000	92.6	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 4500	92.9	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 4000	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 3500	95.3	95.3	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 3000	96.0	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2500	96.3	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	97.2	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1800	97.3	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1500	97.5	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	98.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	98.4	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	98.6	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	98.7	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	98.7	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	98.7	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	98.7	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.7	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.7	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.7	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 793

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7569

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)0300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 20000	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 18000	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 16000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 14000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 12000	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 10000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 9000	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 8000	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 7000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 6000	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 5000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 4500	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 4000	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3500	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 3000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 2500	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	99.1	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.1	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.1	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.2	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 796

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO. CEILING	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 20000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 18000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 16000	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 14000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 12000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 10000	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 9000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 8000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 7000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 6000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 5000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 4500	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3000	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 2500	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1800	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1200	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 500	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 300	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 200	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 100	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 794



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥20000	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥18000	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥16000	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥14000	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥12000	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥10000	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥9000	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥8000	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥7000	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥6000	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥5000	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥4500	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥4000	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥3500	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥3000	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥2500	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥2000	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥1800	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥1500	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥1200	98.5	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥1000	98.5	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥900	98.5	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥800	98.5	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6
≥700	98.5	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6
≥600	98.5	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥500	98.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥400	98.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥300	98.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥200	93.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥100	98.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥0	98.5	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 793

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 20000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 18000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 16000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 14000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 12000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 9000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 7000	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 6000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 5000	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4500	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 4000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3500	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3000	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2500	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 793

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

		VISIBILITY (STAT. MILES)															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
CEILING	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
51.1	56.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
5000	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
5000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
4000	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
4000	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
3000	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
3000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
1000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
4500	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
4000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
3500	96.8	97.0	97.1	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
3000	97.2	97.6	97.7	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2500	97.8	98.2	98.3	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2000	98.3	98.7	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
1800	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1500	98.6	99.0	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1200	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
1000	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
900	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
800	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
700	98.9	99.2	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
600	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
450	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	98.9	99.2	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 787

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFH WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725692 NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	21	24	20	22	24	20	21	20	24	20	20	20	20	20
NO CEILING	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2 20000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2 18000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2 16000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2 14000	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
2 12000	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
2 10000	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2 9000	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2 8000	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
2 7000	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2 6000	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
2 5000	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 4500	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 4000	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
2 3500	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 3000	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2 2500	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2 2000	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1800	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1500	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1200	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1000	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 900	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 800	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 700	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 600	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 792

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2
≥18000	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
≥16000	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
≥14000	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8
≥12000	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0
≥10000	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6
≥9000	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0
≥8000	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0
≥7000	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9
≥6000	91.4	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7
≥5000	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8
≥4500	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0
≥4000	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥3500	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥3000	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥2500	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4
≥2000	97.6	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1
≥1800	98.1	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥1500	98.5	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥1200	98.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥1000	98.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥900	98.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥800	98.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥700	98.7	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
≥600	98.7	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥500	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥400	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥300	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥200	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥100	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥0	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 793

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70569

NATRONA CO/CASPER WY

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 20000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 18000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 16000	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 14000	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 12000	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 10000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 9000	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 8000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 7000	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 6000	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 5000	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7
≥ 4500	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 4000	95.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3500	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 3000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2500	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2000	97.6	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1800	97.9	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1500	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200	98.5	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	98.6	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	98.7	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	98.7	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	98.8	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	98.8	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	98.9	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	98.9	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.9	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.9	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.9	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

6341

USAF ETAC

FORM 1-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARJUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)0000-0200  
HOURS LST

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 20000	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 18000	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 16000	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 14000	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 12000	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 10000	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 9000	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 8000	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 7000	91.5	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 6000	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 5000	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4500	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4000	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 3500	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 3000	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2500	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2000	96.7	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	97.5	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1000	97.5	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 900	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	97.8	98.4	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	97.8	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	97.8	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	97.8	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	97.8	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	97.8	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 815

USAF ETAC D-11-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARJUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS0300-0500  
TIME PERIOD

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
N - CEILING	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 20000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 18000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 16000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 14000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 12000	84.9	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 10000	87.6	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 9000	88.4	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 8000	90.1	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 7000	91.6	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 6000	92.4	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 5000	93.7	93.9	93.9	94.0	94.1	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4500	93.9	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 4000	93.9	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 3500	94.3	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 3000	94.6	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	95.0	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 2000	96.5	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800	96.5	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500	96.5	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1200	97.2	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	97.4	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	97.6	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	97.7	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	97.7	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 600	97.7	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 500	97.7	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	97.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	97.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200	97.7	98.8	99.0	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	97.7	98.8	99.0	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	97.7	98.8	99.0	99.3	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 821



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.1	≥.05	≥.01	≥.005	≥.001
NO CEILING	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 20000	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 18000	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 16000	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 14000	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 12000	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 10000	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 9000	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 8000	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 7000	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 6000	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 5000	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 4500	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4000	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 3500	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3000	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1200	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	98.5	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	98.5	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	98.5	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	98.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	98.5	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	98.5	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	98.5	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 819

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 20000	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 18000	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 16000	84.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 14000	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 12000	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 10000	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 9000	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 8000	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 7000	93.0	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 6000	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 5000	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 4500	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 4000	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 3500	95.7	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 3000	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2000	98.0	98.0	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	98.2	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1500	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	98.7	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000	98.7	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 820

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 20000	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 18000	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 16000	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 14000	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 12000	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2
≥ 10000	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3
≥ 9000	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.8
≥ 8000	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.4
≥ 7000	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0
≥ 6000	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.5
≥ 5000	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.3
≥ 4500	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6
≥ 4000	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6
≥ 3500	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8
≥ 3000	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2
≥ 2500	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0
≥ 2000	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 1800	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 1500	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9
≥ 1200	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0
≥ 1000	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
≥ 900	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
≥ 800	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
≥ 700	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 600	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 500	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 400	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 300	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 200	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 817

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 20000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3
≥ 18000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3
≥ 16000	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.3
≥ 12000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
≥ 10000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9
≥ 9000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4
≥ 8000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6
≥ 7000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
≥ 6000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2
≥ 5000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.5
≥ 4500	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 4000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
≥ 3500	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0
≥ 3000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
≥ 2500	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.9
≥ 2000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.9
≥ 1800	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.9
≥ 1500	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 1200	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
≥ 1000	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 900	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 800	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 700	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 600	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 500	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 400	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 300	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 200	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 100	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 0	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6

TOTAL NUMBER OF OBSERVATIONS 812

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

705690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LT)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 20000	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 18000	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 16000	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 14000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 12000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IN 9000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IN 8000	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IN 7000	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IN 6000	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IN 5000	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IN 4500	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IN 4000	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IN 3500	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IN 3000	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IN 2500	98.4	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IN 2000	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1800	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1500	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1200	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1000	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 900	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 800	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 700	98.9	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 600	99.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 500	99.0	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IN 400	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 812

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

705690 NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO RECORD	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥21000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥18000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥15000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥14000	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥12000	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥10000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥9000	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥8000	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥7000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥6000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥5000	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥4500	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥4000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥3500	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥3000	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥2500	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥2000	97.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥1800	97.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥1500	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1200	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1000	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥900	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥800	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥700	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥600	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥500	98.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥400	98.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥300	98.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥200	98.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥100	98.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥0	98.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 818

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME73-81  
YEARJUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥20000	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 18000	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 16000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
IV 14000	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2
IV 12000	80.6	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
IV 10000	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0
IV 9000	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 8000	86.8	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 7000	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 6000	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3
IV 5000	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3
IV 4500	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 4000	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6
IV 3500	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 3000	96.5	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9
IV 2500	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
IV 2000	97.6	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1800	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2
IV 1500	97.9	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1200	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1000	98.3	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	98.4	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	98.5	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 700	98.5	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
IV 600	98.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 500	98.6	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	98.6	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	98.6	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100	98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
IV 0	98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6534

USAF ETAC 1-80  
JUL 84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

		VISIBILITY - STATUTE MILES															
		≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
CEILING - FEET	≥1000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
	2000	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	1800	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	1600	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	1400	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
	1200	82.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
	1000	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
	900	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
	800	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
	700	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	600	91.8	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	500	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	450	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	400	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
	350	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	300	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
	250	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
	200	97.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	180	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	150	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	120	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	100	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	90	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	80	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	70	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	60	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	50	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	40	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	30	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	20	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	10	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	0	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 818



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7569

NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO CEILING	78.1	78.0	78.1	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 1800	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1600	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1400	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 1200	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 1000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 900	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 800	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 700	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 600	91.9	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 500	92.7	92.8	92.8	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 450	93.9	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 400	94.5	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 350	95.0	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	95.5	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 250	95.6	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 200	96.4	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	96.7	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1500	96.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1200	96.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	97.3	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	97.5	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	97.6	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	97.6	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	97.6	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	97.6	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	97.6	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	97.6	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	97.6	99.5	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.6	99.5	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	97.6	99.5	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

705697 NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
≥ 10000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4
≥ 7500	78.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2
≥ 5000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5
≥ 4000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5
≥ 3000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9
≥ 2000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1
≥ 1500	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5
≥ 1000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6
≥ 800	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.0
≥ 700	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9
≥ 600	91.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.2
≥ 500	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9
≥ 450	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9
≥ 400	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0
≥ 350	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5
≥ 300	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6
≥ 250	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7
≥ 200	96.4	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9
≥ 180	96.7	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2
≥ 150	96.7	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4
≥ 120	96.8	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
≥ 100	97.4	97.5	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2
≥ 90	97.5	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3
≥ 80	97.8	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 70	97.8	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 60	98.3	98.4	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0
≥ 50	98.4	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
≥ 40	98.5	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 30	98.5	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 20	98.5	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 10	98.5	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.8
≥ 0	98.5	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 815

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725693 NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING ≥ 20000	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
W 18000	80.6	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
W 16000	80.9	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
W 14000	81.5	81.6	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
W 12000	84.5	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
W 10000	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
W 9000	90.8	90.9	90.9	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
W 8000	91.6	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
W 7000	91.9	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
W 6000	92.9	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
W 5000	93.5	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
W 4500	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
W 4000	95.7	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
W 3500	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
W 3000	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
W 2500	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
W 2000	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
W 1800	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
W 1500	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
W 1200	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 1000	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 900	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 800	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 700	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 600	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
W 500	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
W 400	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
W 300	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
W 200	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
W 100	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
W 0	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 806

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 20000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 18000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 16000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 14000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 12000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 10000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 9000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 8000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 7000	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 6000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 5000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 4500	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 4000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3500	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 819

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70569 NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 20000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 18000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 16000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 14000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 12000	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 10000	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 8000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 6000	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 5000	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 4500	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 3500	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500	98.7	98.7	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2000	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800	98.8	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500	99.3	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 815

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 20000	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 18000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 16000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 14000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 12000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 10000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 9000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 8000	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 7000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 6000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 5000	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4500	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 3500	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3000	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 828

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥20000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥18000	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥16000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥14000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥12000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥10000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥9000	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥8000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥7000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥6000	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥5000	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥4500	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥4000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥3500	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥3000	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥2500	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥2000	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥1800	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1500	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥1200	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥1000	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥900	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥800	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥700	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥600	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO. CEILING	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 20000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 18000	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 16000	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 14000	77.6	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 12000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
≥ 10000	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 9000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2
≥ 8000	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 7000	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 6000	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 5000	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 4500	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 4000	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2
≥ 3500	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3000	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2500	97.7	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2000	98.2	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1800	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
≥ 1500	98.5	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	98.8	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	98.9	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	99.1	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	99.1	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	99.1	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	99.1	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	99.1	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	99.1	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6550



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77569

NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2
≥ 20000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
≥ 18000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
≥ 16000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
≥ 14000	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
≥ 12000	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.8
≥ 10000	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4
≥ 9000	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3
≥ 8000	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9
≥ 7000	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5
≥ 6000	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8
≥ 5000	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.9
≥ 4500	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.7
≥ 4000	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6
≥ 3500	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.0
≥ 3000	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.5
≥ 2500	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1
≥ 2000	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 1800	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.0
≥ 1500	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7
≥ 1200	96.4	97.1	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
≥ 1000	96.4	97.1	97.2	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
≥ 900	96.6	97.4	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.9
≥ 800	96.9	97.7	97.9	97.9	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.4
≥ 700	97.0	98.0	98.4	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9
≥ 600	97.1	98.1	98.5	98.5	98.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0
≥ 500	97.2	98.2	98.6	98.6	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 400	97.4	98.9	99.2	99.2	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 300	97.4	98.9	99.2	99.2	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 200	97.5	99.1	99.5	99.5	99.5	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	97.5	99.1	99.5	99.5	99.5	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	97.5	99.1	99.5	99.5	99.5	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 795

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

KATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	74.3	74.4	74.4	74.4	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.9	74.9	75.2	75.3
≥ 2000	78.9	79.0	79.0	79.0	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.7	79.9
≥ 1800	78.9	79.0	79.0	79.0	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.7	79.9
≥ 1600	78.9	79.0	79.0	79.0	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.7	79.9
≥ 1400	79.5	79.6	79.6	79.6	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.4	80.5
≥ 1200	81.4	81.5	81.5	81.5	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	82.0	82.0	82.3	82.4
≥ 1000	84.4	84.6	84.6	84.6	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	85.1	85.1	85.3	85.4
≥ 900	85.2	85.3	85.3	85.3	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.8	85.8	86.1	86.2
≥ 800	85.7	85.8	85.8	85.8	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.3	86.3	86.6	86.7
≥ 700	86.2	86.3	86.3	86.3	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.8	86.8	87.1	87.2
≥ 600	87.5	87.6	87.6	87.6	87.8	87.8	87.8	87.8	88.0	88.0	88.0	88.0	88.1	88.1	88.4	88.5
≥ 500	88.6	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.5	89.6
≥ 450	88.6	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.5	89.6
≥ 400	89.1	89.2	89.2	89.2	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.7	89.7	90.0	90.1
≥ 350	90.1	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.8	90.8	91.0	91.1
≥ 300	90.9	91.0	91.0	91.0	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.5	91.5	91.8	91.9
≥ 250	91.5	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.3	92.3	92.5	92.7
≥ 200	92.0	92.4	92.4	92.4	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	93.0	93.0	93.3	93.4
≥ 180	92.4	92.9	93.2	93.3	93.5	93.5	93.5	93.5	93.7	93.7	93.7	93.7	93.8	93.8	94.1	94.2
≥ 150	92.8	93.7	93.9	94.1	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.6	94.6	94.8	94.9
≥ 120	93.9	94.8	95.1	95.2	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.7	95.7	95.9	96.1
≥ 100	94.1	95.3	95.6	95.8	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.3	96.3	96.6	96.7
≥ 90	94.4	95.7	95.9	96.3	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.8	96.8	97.1	97.2
≥ 80	94.7	96.1	96.3	96.7	97.1	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.5	97.5	97.7	97.8
≥ 70	94.7	96.3	96.7	97.1	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	98.0	98.0	98.2	98.4
≥ 60	94.9	96.8	97.1	97.5	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.6	98.7
≥ 50	95.1	97.0	97.2	97.7	98.2	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.6	98.6	98.9	99.0
≥ 40	95.1	97.0	97.2	97.7	98.2	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	99.0	99.1
≥ 30	95.1	97.0	97.2	97.7	98.2	98.2	98.5	98.5	98.6	98.7	98.7	98.7	98.9	98.9	99.1	99.2
≥ 20	95.1	97.0	97.2	97.7	98.4	98.4	98.6	98.6	98.7	98.9	98.9	98.9	99.1	99.1	99.6	99.7
≥ 10	95.1	97.0	97.2	97.7	98.4	98.4	98.6	98.6	98.7	98.9	98.9	98.9	99.1	99.1	99.6	99.7
≥ 0	95.1	97.0	97.2	97.7	98.4	98.4	98.6	98.6	98.7	98.9	98.9	98.9	99.2	99.2	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 790

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO. CEILING ≥ 20000	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1
IV 18000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6
IV 16000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6
IV 14000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6
IV 12000	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7
IV 10000	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9
IV 9000	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5
IV 8000	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7
IV 7000	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4
IV 6000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0
IV 5000	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.7
IV 4500	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8
IV 4000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4
IV 3500	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
IV 3000	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7
IV 2500	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7	94.7	94.7	94.7
IV 2000	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.5	95.5	95.5	95.5	95.5	95.5
IV 1800	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6
IV 1500	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	96.2	96.2	96.2	96.2	96.2	96.2
IV 1200	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2
IV 1000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2
IV 900	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2
IV 800	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
IV 700	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 600	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9
IV 500	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1
IV 400	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
IV 300	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
IV 200	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
IV 100	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
IV 0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS 792

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO FLOORING	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥20000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥18000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥16000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥14000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥12000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥10000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥9000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥8000	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥7000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥6000	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥5000	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥4500	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥4000	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥3500	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥3000	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥2500	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥2000	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥1800	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥1500	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥1200	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥1000	96.9	97.7	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥900	97.0	97.9	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥800	97.1	98.1	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥700	97.2	98.5	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥600	97.4	98.7	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
≥500	97.4	98.7	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.4	99.5	99.5	99.5	99.5	99.5
≥400	97.4	98.7	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥300	97.4	98.7	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥200	97.4	98.7	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥100	97.4	98.7	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥0	97.4	98.7	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 796

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569C  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1800  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
≥ 20000	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.7
≥ 18000	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.7
≥ 16000	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.7
≥ 14000	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8
≥ 12000	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4
≥ 10000	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.0
≥ 9000	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.2
≥ 8000	81.7	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0
≥ 7000	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2
≥ 6000	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4
≥ 5000	89.3	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.6
≥ 4500	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.4
≥ 4000	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0
≥ 3500	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8
≥ 3000	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
≥ 2500	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 2000	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.3
≥ 1800	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7
≥ 1500	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8
≥ 1200	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7
≥ 1000	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.4
≥ 900	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
≥ 800	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9
≥ 700	98.5	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 600	98.7	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 500	98.7	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 400	98.7	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9
≥ 300	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 200	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 788

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

75690

NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.0
NO FLOORING	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 20000	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 18000	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 15700	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 14000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 12000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 10000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 9000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 8000	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 6000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 5000	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 4500	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4000	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3000	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2500	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	98.6	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	98.7	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	99.0	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 794

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

		VISIBILITY - STATUTE MILES															
		2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
CEILING - FEET																	
≥ 12000		75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 10000		79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 8000		79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 6000		79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 4000		79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 2000		81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 1000		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 800		83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 600		84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 400		86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 200		89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 100		91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 50		92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 25		93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 15		94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 10		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 5		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 0.5		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 0.25		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0.1		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0.05		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0.025		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0.01		98.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0.005		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.0025		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.001		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.0005		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.00025		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.0001		98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 779

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO DATA	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2. 20000	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2. 15000	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2. 10000	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2. 7500	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2. 5000	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2. 2500	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
2. 1000	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2. 8000	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2. 7000	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2. 6000	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2. 5000	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2. 4500	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2. 4000	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2. 3500	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
2. 3000	94.7	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2. 2500	95.3	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2. 2000	96.0	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2. 1800	96.0	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2. 1500	96.2	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2. 1000	97.0	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
2. 800	97.1	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2. 600	97.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2. 400	97.5	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2. 200	97.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2. 100	97.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2. 500	97.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
2. 400	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
2. 300	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
2. 200	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
2. 100	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
2. 50	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
2. 0	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 792



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4
≥ 20000	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4
W 8000	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4
W 5000	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4
W 4000	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9
W 3000	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6
W 10000	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8
W 9000	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4
W 8000	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.0	85.0
W 7000	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1
W 6000	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4
W 5000	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.5
W 4500	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.3
W 4000	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1
W 3500	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0
W 3000	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0
W 2500	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
W 2000	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
W 1800	95.2	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6
W 1500	95.8	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3
W 1200	96.7	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
W 1000	96.9	97.5	97.7	97.7	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0
W 900	97.1	97.8	97.9	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2
W 800	97.2	98.1	98.2	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.7
W 700	97.4	98.4	98.7	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
W 600	97.5	98.6	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
W 500	97.6	98.7	98.9	99.1	99.1	99.2	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5
W 400	97.7	98.9	99.1	99.3	99.4	99.4	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
W 300	97.7	98.9	99.2	99.3	99.4	99.5	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8
W 200	97.7	98.9	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0
W 100	97.7	98.9	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0
W 0	97.7	98.9	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6326

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569~ NATRONA CO/CASPER WY

73-81

OCI

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

[illegible]TOTAL NUMBER OF OBSERVATIONS 121

USAF ETAC 1084 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1
≥ 20000	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0
≥ 18000	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0
≥ 16000	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0
≥ 14000	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1
≥ 12000	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2
≥ 10000	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7
≥ 9000	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2
≥ 8000	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.5
≥ 7000	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9
≥ 6000	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7
≥ 5000	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
≥ 4500	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.2
≥ 4000	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1
≥ 3500	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2
≥ 3000	84.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6
≥ 2500	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9
≥ 2000	87.5	87.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0
≥ 1800	87.5	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2
≥ 1500	88.2	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.1
≥ 1200	89.7	90.3	90.8	90.8	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥ 1000	90.8	91.9	92.4	92.4	92.4	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8
≥ 900	91.6	92.8	93.3	93.3	93.5	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.9
≥ 800	91.9	93.4	94.0	94.0	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.9
≥ 700	92.4	93.9	94.5	94.5	94.7	94.9	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.5	95.6
≥ 600	92.5	94.4	95.0	95.0	95.2	95.3	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.5
≥ 500	92.5	94.4	95.0	95.0	95.2	95.3	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.5
≥ 400	92.8	94.9	95.5	95.6	95.8	96.2	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.9	97.9	98.0
≥ 300	92.9	95.0	95.6	95.7	96.0	96.3	97.2	97.7	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.2
≥ 200	93.0	95.1	95.7	95.8	96.1	96.5	97.3	98.7	98.7	98.7	98.9	98.9	98.9	99.0	99.0	99.4
≥ 100	93.0	95.1	95.7	95.8	96.2	96.6	97.4	98.8	98.8	99.0	99.1	99.1	99.1	99.3	99.3	99.6
≥ 0	93.0	95.1	95.7	95.8	96.2	96.6	97.4	98.8	98.8	99.0	99.1	99.1	99.1	99.3	99.3	99.6

TOTAL NUMBER OF OBSERVATIONS 117

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569C

NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

ELEVATION FEET	VISIBILITY IN STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO. OF OBS.	68.2	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6
12500	74.7	74.3	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.9
12000	74.4	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.9
11500	74.4	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.9
11000	75.1	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6
10500	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2
10000	79.2	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.7
9500	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.3
9000	80.7	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.2
8500	81.2	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.8
8000	81.9	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.5
7500	83.3	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.9
7000	84.2	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.9
6500	84.5	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1
6000	85.3	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	86.0
5500	86.6	86.9	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.4
5000	87.3	87.7	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.2
4500	88.4	88.9	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.5
4000	88.7	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.8
3500	88.8	89.5	89.8	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.3
3000	89.9	90.8	91.0	91.1	91.1	91.1	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	92.0
2500	90.4	91.6	91.9	92.1	92.1	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.9
2000	90.9	92.1	92.5	92.7	92.7	92.7	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.6
1500	91.4	92.6	93.1	93.5	93.5	93.5	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.3
1000	91.7	93.0	93.5	93.8	93.8	93.8	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	95.0
500	92.1	93.3	93.8	94.2	94.2	94.2	95.0	95.4	95.6	95.8	95.9	95.9	95.9	95.9	95.9	96.2
300	92.4	93.6	94.1	94.5	94.6	94.6	95.3	95.8	95.9	96.2	96.4	96.4	96.4	96.4	96.4	96.7
200	92.4	93.8	94.3	94.7	94.8	94.8	95.7	96.2	96.3	96.6	96.8	96.8	96.8	96.8	96.8	97.0
100	92.5	94.1	94.8	95.3	95.6	95.6	96.4	96.9	97.0	97.4	98.2	98.2	98.2	98.2	98.2	98.4
50	92.5	94.1	94.8	95.3	95.6	95.6	96.4	96.9	97.3	97.4	98.2	99.1	99.1	99.1	99.1	99.3
20	92.5	94.1	94.8	95.3	95.6	95.6	96.6	97.3	97.4	98.2	99.1	99.1	99.1	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 812

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 20000	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 8000	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 6000	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4000	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 3000	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 2000	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 1500	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 1000	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 800	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 600	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 500	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 450	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 400	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 350	86.8	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 300	88.9	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 250	89.1	89.4	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200	90.2	90.5	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 180	90.3	90.6	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 150	90.7	90.9	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 120	91.4	91.8	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 100	92.4	92.9	93.3	93.3	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 90	93.1	93.8	94.1	94.2	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 80	93.5	94.4	94.9	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 70	93.9	94.9	95.3	95.5	95.7	95.7	95.8	95.8	95.8	95.8	96.3	96.6	96.6	96.6	96.6	96.6
≥ 60	94.2	95.5	96.0	96.1	96.3	96.3	96.6	96.6	96.6	96.6	97.3	97.6	97.6	97.6	97.6	97.6
≥ 50	94.2	95.5	96.1	96.2	96.5	96.5	96.9	96.9	96.9	96.9	97.7	98.0	98.0	98.0	98.0	98.0
≥ 40	94.2	95.5	96.2	96.3	96.6	96.6	97.3	97.4	97.4	97.4	98.2	98.5	98.5	98.5	98.5	98.5
≥ 30	94.2	95.5	96.3	96.5	96.8	96.8	97.7	97.8	97.8	97.8	98.5	98.9	98.9	99.1	99.1	99.1
≥ 20	94.2	95.5	96.3	96.5	96.8	96.8	97.7	97.8	97.8	97.8	98.8	99.3	99.3	99.6	99.6	99.6
≥ 10	94.2	95.5	96.3	96.5	96.8	96.8	97.7	97.9	97.9	97.9	98.9	99.5	99.5	100.0	100.0	100.0
≥ 0	94.2	95.5	96.3	96.5	96.8	96.8	97.7	97.9	97.9	97.9	98.9	99.5	99.5	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 817

USAF ETAC

FORM 101-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
≥10000	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥8000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥6000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥4000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥2000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥1000	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥900	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥800	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥700	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥600	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥500	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥450	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥400	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥350	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥300	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥250	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥200	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥180	92.4	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥150	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥120	94.8	94.8	94.8	94.8	95.0	95.0	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥100	95.8	96.0	96.2	96.2	96.3	96.3	96.3	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥90	95.9	96.3	96.4	96.9	97.0	97.0	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥80	96.0	96.4	96.5	97.0	97.3	97.3	97.4	97.5	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8
≥70	96.0	96.4	96.5	97.0	97.3	97.3	97.4	97.6	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0
≥60	96.0	96.4	96.5	97.0	97.3	97.3	97.4	97.6	97.6	98.0	98.3	98.3	98.3	98.3	98.3	98.3
≥50	96.2	96.8	97.0	97.5	97.9	97.9	98.0	98.4	98.4	98.8	99.0	99.0	99.0	99.0	99.0	99.0
≥40	96.2	96.8	97.3	97.8	98.1	98.1	98.3	98.8	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4
≥30	96.2	96.8	97.3	97.8	98.3	98.3	98.4	98.9	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
≥20	96.2	96.8	97.3	97.8	98.3	98.3	98.4	99.1	99.1	99.5	99.8	99.8	100.0	100.0	100.0	100.0
≥10	96.2	96.8	97.3	97.8	98.3	98.3	98.4	99.1	99.1	99.5	99.8	99.8	100.0	100.0	100.0	100.0
≥0	96.2	96.8	97.3	97.8	98.3	98.3	98.4	99.1	99.1	99.5	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 806

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 20000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 18000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 16000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 14000	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 12000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 10000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 9000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 8000	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 7000	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 6000	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 5000	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4500	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 4000	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500	89.1	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000	90.0	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2500	91.0	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	92.4	92.5	92.6	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800	92.7	92.9	93.0	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1500	93.9	94.1	94.2	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1200	95.3	95.5	95.8	95.9	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	95.8	96.4	96.9	97.0	97.5	97.6	97.6	97.7	97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	96.0	96.6	97.2	97.6	98.1	98.2	98.2	98.4	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	96.0	96.6	97.3	97.7	98.2	98.3	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	96.0	96.6	97.3	97.7	98.2	98.3	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	96.0	96.6	97.3	97.7	98.2	98.3	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	96.0	97.0	97.7	98.1	98.5	98.7	98.7	98.9	99.0	99.3	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	96.1	97.1	97.8	98.2	98.7	98.8	98.8	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	96.1	97.2	97.9	98.3	98.8	98.9	99.0	99.3	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	96.1	97.3	98.1	98.4	98.9	99.0	99.2	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.1	97.3	98.1	98.4	98.9	99.0	99.2	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.1	97.3	98.1	98.4	98.9	99.0	99.2	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

		VISIBILITY, STATUTE MILES															
CEILING, FEET		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO. OF HOURS	2000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
	1800	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
2000	1600	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
	1400	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2000	1200	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
	1000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
2000	800	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
	600	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
2000	400	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
	200	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2000	100	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
	50	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2000	25	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
	10	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2000	5	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	2	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2000	1	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
	0	92.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2000	1500	93.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
	1200	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2000	1000	94.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	800	95.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2000	600	95.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
	400	95.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2000	200	95.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
	100	95.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2000	50	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	25	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2000	10	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	5	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2000	2	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	0	95.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 818



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.8
≥ 20000	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0	72.0
≥ 18000	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0	72.0
≥ 16000	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0	72.0
≥ 14000	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1
≥ 12000	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	73.9
≥ 10000	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.3	76.3
≥ 9000	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6
≥ 8000	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8	78.8
≥ 7000	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8
≥ 6000	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3
≥ 5000	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8
≥ 4500	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5
≥ 4000	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.9	84.9
≥ 3500	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5
≥ 3000	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6
≥ 2500	87.8	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7
≥ 2000	90.0	91.0	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5
≥ 1800	91.1	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7
≥ 1500	91.5	92.7	93.0	93.0	93.0	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.4	93.4
≥ 1200	92.9	94.2	94.6	94.7	94.7	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1
≥ 1000	93.4	94.8	95.2	95.3	95.3	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7
≥ 900	94.0	95.0	96.3	96.4	96.4	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9
≥ 800	94.3	96.3	96.8	96.9	97.0	97.3	97.4	97.7	97.7	97.7	97.9	97.9	97.9	97.9	98.0	98.0
≥ 700	94.6	96.7	97.2	97.3	97.4	97.7	97.8	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.4	98.4
≥ 600	94.7	96.8	97.3	97.4	97.5	97.8	97.9	98.2	98.2	98.4	98.5	98.5	98.5	98.5	98.6	98.6
≥ 500	95.0	97.3	97.9	98.0	98.2	98.4	98.5	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.3	99.3
≥ 400	95.0	97.3	97.9	98.0	98.3	98.5	98.6	98.9	98.9	99.1	99.3	99.3	99.3	99.3	99.4	99.4
≥ 300	95.0	97.3	97.9	98.2	98.4	98.6	98.8	99.0	99.0	99.3	99.4	99.4	99.5	99.5	99.6	99.6
≥ 200	95.0	97.3	97.9	98.2	98.4	98.6	98.9	99.1	99.1	99.4	99.5	99.5	99.6	99.6	99.8	99.8
≥ 100	95.0	97.3	97.9	98.2	98.4	98.6	98.9	99.1	99.1	99.5	99.6	99.6	99.6	99.8	99.9	99.9
≥ 0	95.0	97.3	97.9	98.2	98.4	98.6	98.9	99.1	99.1	99.5	99.6	99.6	99.6	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 813

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. OF ≥ 20000	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 18000	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 16000	73.4	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 12000	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1
≥ 10000	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2
≥ 9000	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0
≥ 8000	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0
≥ 7000	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.0
≥ 6000	80.5	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 5000	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 4500	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4000	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7
≥ 3500	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8
≥ 3000	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	87.6	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1
≥ 2000	88.7	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1800	90.2	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1500	90.5	91.0	91.1	91.1	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4
≥ 1200	91.1	91.6	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1000	92.3	93.1	93.4	93.5	93.6	93.7	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 900	93.1	94.1	94.5	94.6	94.7	94.8	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.2
≥ 800	93.6	94.6	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700	93.8	95.1	95.6	95.9	96.1	96.2	96.4	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.8	96.8
≥ 600	94.1	95.4	96.0	96.2	96.5	96.5	96.7	96.9	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.3
≥ 500	94.2	95.6	96.2	96.5	96.8	96.8	97.1	97.3	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.9
≥ 400	94.3	95.9	96.5	96.8	97.1	97.1	97.4	97.7	97.7	98.1	98.2	98.2	98.2	98.2	98.3	98.3
≥ 300	94.4	96.0	96.7	97.0	97.3	97.4	97.8	98.1	98.1	98.3	98.7	98.7	98.7	98.7	98.7	98.8
≥ 200	94.4	96.1	96.8	97.2	97.5	97.6	98.1	98.4	98.4	98.8	99.0	99.0	99.0	99.1	99.1	99.2
≥ 100	94.5	96.2	96.9	97.2	97.6	97.7	98.2	98.7	98.7	99.2	99.4	99.4	99.4	99.5	99.5	99.6
≥ 0	94.5	96.1	96.9	97.2	97.6	97.8	98.2	98.7	98.8	99.3	99.6	99.6	99.6	99.7	99.7	99.8

TOTAL NUMBER OF OBSERVATIONS 6530

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 20000	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 18000	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 16000	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 14000	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 12000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 10000	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 9000	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 8000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 7000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 6000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 4500	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 4000	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3500	82.1	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000	83.4	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 2500	84.5	85.4	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000	85.7	87.2	87.3	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800	86.0	87.5	87.8	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1500	86.4	88.1	88.3	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1200	86.8	88.6	88.9	89.3	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1000	87.4	89.2	89.6	89.9	90.3	90.3	91.1	91.3	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900	88.2	90.6	90.9	91.3	92.1	92.1	92.8	93.1	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3
≥ 800	88.4	91.1	91.4	91.9	92.8	92.8	93.8	94.1	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3
≥ 700	88.7	91.4	91.8	92.3	93.2	93.2	94.2	94.5	94.5	94.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	88.7	91.7	92.1	92.6	93.6	93.6	94.6	94.8	94.8	95.0	95.2	95.2	95.2	95.2	95.2	95.2
≥ 500	88.7	91.8	92.2	92.7	93.7	93.7	94.8	95.2	95.3	95.6	95.8	95.8	95.8	95.8	95.8	95.8
≥ 400	88.7	91.8	92.5	93.0	94.0	94.0	95.1	96.2	96.4	96.6	97.1	97.1	97.1	97.1	97.1	97.1
≥ 300	88.8	92.2	92.8	93.3	94.5	94.5	96.0	97.1	97.2	97.5	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200	88.8	92.3	93.0	93.5	94.6	94.6	96.1	97.2	97.4	98.0	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100	88.8	92.3	93.0	93.5	94.6	94.6	96.1	97.2	97.4	98.0	98.9	98.9	98.9	98.9	99.1	99.2
≥ 0	88.8	92.3	93.0	93.5	94.6	94.6	96.1	97.2	97.4	98.4	99.2	99.2	99.2	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 795

USAF ETAC FORM 0-74-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	66.0	66.0
≥20000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.9	72.9
≥18000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.9	72.9
≥16000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.9	72.9
≥14000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.7	73.7
≥12000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.5	75.5	75.5	75.5	75.5	75.6	75.6
≥10000	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.4	76.4	76.4	76.4	76.4	76.5	76.5
≥9000	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.8	76.8
≥8000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.9	77.9	77.9	77.9	77.9	78.0	78.0
≥7000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.8	78.8
≥6000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.4	79.4	79.4	79.4	79.4	79.5	79.5
≥5000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.4	80.4
≥4500	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.5	80.5	80.5	80.5	80.5	80.7	80.7
≥4000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.7	81.7
≥3500	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.3	82.3	82.3	82.3	82.3	82.4	82.4
≥3000	82.4	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.0	83.0	83.0	83.0	83.0	83.2	83.2
≥2500	83.3	83.9	84.4	84.4	84.7	84.7	84.7	84.7	84.7	84.9	84.9	84.9	84.9	84.9	85.1	85.1
≥2000	83.9	84.9	85.4	85.4	85.7	85.7	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	86.1	86.1
≥1800	84.2	85.4	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.6	86.6	86.6	86.6	86.6	86.7	86.7
≥1500	84.3	85.9	86.8	86.8	87.1	87.1	87.1	87.1	87.1	87.6	87.6	87.6	87.6	87.6	87.7	87.7
≥1200	84.4	86.7	87.8	87.8	88.4	88.6	88.7	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.3	89.3
≥1000	85.1	87.3	88.6	88.6	89.4	89.7	89.8	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.5	90.5
≥900	85.2	87.6	89.1	89.1	90.2	90.5	90.6	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.2	91.2
≥800	85.7	88.4	89.9	90.1	91.2	91.6	92.5	92.8	92.8	93.2	93.2	93.2	93.2	93.2	93.3	93.3
≥700	85.9	88.7	90.2	90.3	91.6	92.0	92.8	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.7	93.7
≥600	86.3	89.2	90.8	91.1	92.5	92.8	93.7	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.6	94.6
≥500	86.6	89.9	91.6	92.2	93.6	94.0	95.0	95.4	95.4	95.9	95.9	95.9	95.9	95.9	96.0	96.0
≥400	86.8	90.5	92.1	92.7	94.1	94.6	95.9	96.4	96.4	96.9	97.0	97.0	97.0	97.0	97.1	97.1
≥300	86.9	90.7	92.3	93.0	94.3	94.8	96.2	96.7	96.7	97.2	97.4	97.4	97.4	97.4	97.5	97.5
≥200	86.9	90.7	92.3	93.1	94.7	95.4	96.7	97.2	97.2	97.7	98.2	98.2	98.2	98.2	98.5	98.5
≥100	86.9	90.7	92.3	93.1	94.7	95.4	96.7	97.2	97.2	97.7	98.4	98.6	98.6	98.6	98.7	98.9
≥50	86.9	90.7	92.3	93.1	94.7	95.4	96.7	97.2	97.2	97.9	98.4	98.6	98.6	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS

796

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725691 NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

CEILING		VISIBILITY (STATUTE MILES)															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO. FEET	20000	59.6	59.7	59.7	59.7	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	17000	66.9	67.0	67.0	67.0	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2000	16000	66.9	67.0	67.0	67.0	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
	15000	67.2	67.3	67.3	67.3	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2000	14000	68.4	68.6	68.6	68.6	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
	13000	72.2	72.3	72.3	72.3	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
2000	12000	75.2	75.3	75.3	75.3	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	11000	75.8	76.0	76.0	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
2000	10000	78.1	78.2	78.2	78.2	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
	9000	78.9	79.0	79.0	79.0	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2000	8000	79.9	80.0	80.0	80.0	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
	7000	80.4	80.5	80.5	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2000	6000	81.1	81.3	81.3	81.3	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
	5000	81.5	81.6	81.6	81.6	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2000	4000	82.0	82.3	82.3	82.3	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
	3000	82.5	83.0	83.1	83.1	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2000	2500	82.8	83.4	83.6	83.6	84.0	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
	2000	84.2	84.9	85.2	85.2	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
2000	1800	84.3	85.0	85.3	85.3	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
	1500	84.8	85.8	86.0	86.2	86.7	86.7	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
2000	1200	85.8	87.0	87.7	88.1	88.6	88.8	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
	1000	86.4	87.8	88.4	89.1	89.6	89.9	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2000	900	86.4	88.3	89.1	89.8	90.3	90.8	91.6	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
	800	86.5	88.4	89.7	90.4	90.9	91.4	92.2	92.6	92.6	92.8	93.0	93.0	93.0	93.0	93.0	93.0
2000	700	87.0	88.9	90.2	91.1	91.7	92.2	93.0	93.3	93.3	93.6	93.7	93.7	93.7	93.7	93.7	93.7
	600	87.0	88.9	90.4	91.4	92.1	92.6	93.3	93.8	93.8	94.2	94.5	94.5	94.5	94.5	94.5	94.5
2000	500	87.3	89.4	90.9	92.1	92.7	93.3	94.2	94.8	94.8	95.3	95.6	95.6	95.6	95.6	95.7	95.7
	400	87.8	90.2	91.7	93.1	93.7	94.5	95.3	96.1	96.1	96.9	97.4	97.4	97.4	97.4	97.5	97.5
2000	300	87.8	90.7	92.3	93.7	94.3	95.1	96.0	96.7	96.9	97.6	98.1	98.1	98.2	98.2	98.4	98.4
	200	87.9	90.8	92.5	93.8	94.5	95.2	96.1	96.9	97.0	97.7	98.5	98.5	98.7	98.9	99.0	99.0
2000	100	87.9	90.8	92.5	93.8	94.5	95.2	96.1	96.9	97.0	97.9	98.9	99.0	99.4	99.6	99.7	100.0
	0	87.9	90.8	92.5	93.8	94.5	95.2	96.1	96.9	97.0	97.9	98.9	99.0	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 795

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725695 NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2
NO CEILING	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.7-3000	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
2.8-3000	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
2.9-3000	66.7	66.8	66.8	66.8	66.8	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
3.0-3000	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
3.1-3000	74.8	74.9	74.9	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
3.2-3000	78.9	79.0	79.1	79.2	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
3.3-3000	79.5	79.6	79.7	79.9	80.0	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
3.4-3000	81.1	81.3	81.4	81.5	81.6	81.6	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
3.5-3000	81.8	81.9	82.0	82.2	82.3	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
3.6-3000	82.9	83.0	83.2	83.3	83.4	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
3.7-3000	84.2	84.3	84.4	84.6	84.7	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
3.8-3000	85.1	85.2	85.3	85.4	85.6	85.6	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
3.9-3000	85.4	85.6	85.7	85.8	85.9	85.9	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
4.0-3000	86.6	86.7	86.8	87.0	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
4.1-3000	87.6	87.7	87.8	88.0	88.1	88.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
4.2-3000	88.2	88.4	88.5	88.6	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
4.3-3000	89.1	89.2	89.4	89.5	89.6	89.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
4.4-3000	89.5	89.7	89.9	90.0	90.3	90.3	90.3	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6
4.5-3000	89.9	90.5	90.8	91.1	91.5	91.6	91.6	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
4.6-3000	90.6	91.3	91.6	92.0	92.5	92.7	92.7	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
4.7-3000	90.8	91.4	91.8	92.4	92.9	93.0	93.3	93.9	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1
4.8-3000	90.8	91.4	91.8	92.4	92.9	93.2	93.4	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
4.9-3000	91.0	91.6	92.0	92.7	93.2	93.4	93.8	94.6	94.7	95.1	95.2	95.2	95.2	95.2	95.2	95.2
5.0-3000	91.1	91.9	92.3	92.9	93.4	93.7	94.1	94.8	94.9	95.3	95.4	95.4	95.4	95.4	95.4	95.4
5.1-3000	91.4	92.2	92.7	93.3	93.8	94.1	94.7	95.4	95.6	95.9	96.1	96.1	96.1	96.1	96.1	96.1
5.2-3000	91.9	93.2	93.7	94.3	94.8	95.1	95.8	96.6	96.7	97.3	97.5	97.5	97.6	97.6	97.6	97.6
5.3-3000	92.0	93.5	94.3	95.1	95.6	95.8	96.6	97.3	97.5	98.4	98.7	98.7	99.0	99.0	99.0	99.0
5.4-3000	92.2	93.8	94.7	95.4	96.1	96.3	97.2	98.0	98.1	99.0	99.4	99.4	99.6	99.6	99.6	99.6
5.5-3000	92.2	93.8	94.7	95.4	96.1	96.3	97.2	98.0	98.1	99.0	99.4	99.4	99.9	99.9	99.9	99.9
5.6-3000	92.2	93.8	94.7	95.4	96.1	96.3	97.2	98.0	98.1	99.0	99.5	99.5	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 790

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569

NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO. OF OBS.	56.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 2000	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 1800	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 1600	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 1400	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 1200	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 1000	79.2	79.2	79.4	79.4	79.4	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 900	80.6	80.6	80.8	80.8	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 800	82.2	82.2	82.5	82.5	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 700	83.1	83.1	83.4	83.4	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 600	84.0	84.0	84.3	84.3	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 500	84.6	84.6	84.9	84.9	84.9	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 450	85.9	85.9	86.2	86.2	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 400	87.2	87.2	87.6	87.7	87.7	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 350	87.6	87.6	87.9	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 300	88.7	88.7	89.1	89.2	89.2	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 250	89.1	89.1	89.5	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 200	90.0	90.4	91.1	91.2	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 180	90.2	90.6	91.4	91.6	92.0	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 150	90.4	90.7	91.5	91.8	92.3	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6
≥ 120	91.5	92.0	92.8	93.0	93.5	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0
≥ 100	91.9	92.4	93.3	93.7	94.2	94.4	94.9	95.2	95.2	95.7	95.7	95.7	95.7	95.7	95.8	95.8
≥ 90	92.1	92.6	93.5	93.9	94.4	94.7	95.2	95.4	95.4	96.3	96.3	96.3	96.3	96.3	96.4	96.4
≥ 80	92.5	93.0	93.9	94.3	94.8	95.1	95.6	96.1	96.1	97.0	97.2	97.2	97.2	97.2	97.3	97.3
≥ 70	92.6	93.1	94.2	94.5	95.1	95.3	95.9	96.4	96.4	97.5	97.8	97.8	97.8	97.8	98.0	98.0
≥ 60	92.8	93.3	94.4	94.8	95.3	95.6	96.2	96.7	96.7	97.7	98.2	98.4	98.4	98.4	98.5	98.5
≥ 50	92.9	93.4	94.5	94.9	95.4	95.7	96.3	96.8	96.8	98.0	98.5	98.6	98.7	98.9	99.0	99.0
≥ 40	92.9	93.4	94.5	94.9	95.4	95.7	96.3	96.8	96.8	98.0	98.6	98.7	99.0	99.1	99.2	99.2
≥ 30	92.9	93.4	94.5	94.9	95.4	95.7	96.3	96.8	96.8	98.0	98.7	98.9	99.2	99.4	99.5	99.5
≥ 20	92.9	93.4	94.5	94.9	95.4	95.7	96.3	96.8	97.0	98.1	99.0	99.1	99.6	99.7	100.0	100.0
≥ 10	92.9	93.4	94.5	94.9	95.4	95.7	96.3	96.8	97.0	98.1	99.0	99.1	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 788

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697

NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥2000	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥1800	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥1600	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥1400	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥1200	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥1000	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥800	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥600	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥400	82.8	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥200	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥100	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥50	86.5	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥25	86.9	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥12.5	88.4	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥6.25	89.9	90.4	90.7	90.7	90.7	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥3.125	90.8	91.4	91.7	91.7	91.7	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥1.5625	91.4	92.4	92.8	92.8	92.9	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥0.78125	91.5	92.7	93.2	93.2	93.3	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥0.390625	91.8	93.1	93.7	93.9	94.1	94.2	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥0.1953125	93.1	94.3	95.1	95.3	95.6	95.7	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥0.09765625	93.6	94.8	95.6	96.0	96.3	96.5	96.8	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥0.048828125	93.6	94.8	95.6	96.0	96.3	96.5	96.8	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥0.0244140625	93.6	94.8	95.6	96.0	96.3	96.5	96.8	97.7	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥0.01220703125	93.6	94.8	95.7	96.2	96.5	96.6	97.0	97.9	97.9	98.2	98.4	98.4	98.4	98.4	98.4	98.4
≥0.006103515625	93.6	95.1	96.0	96.3	96.7	96.8	97.3	98.2	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥0.0030517578125	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.00152587890625	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.000762939453125	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.0003814697265625	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.00019073486328125	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.000095367431640625	93.7	95.2	96.1	96.5	96.8	97.0	97.5	98.4	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 792



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725697 NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	15	14	13	12	11	10	5	0
NO CEILING	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2 29000	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2 18000	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2 16000	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
2 14000	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2 12000	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
2 10000	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2 9000	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
2 8000	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
2 7000	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2 6000	82.9	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
2 5000	84.0	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2 4500	85.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
2 4000	86.9	87.3	87.4	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2 3500	87.7	88.1	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2 3000	88.6	89.1	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
2 2500	89.9	90.6	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2 2000	91.1	92.1	92.5	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2 1800	91.2	92.2	92.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
2 1500	92.0	93.0	93.3	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2 1200	93.1	94.3	94.7	94.8	95.4	95.5	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2 1000	93.7	95.1	95.5	95.6	96.2	96.4	96.6	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2 900	93.7	95.1	95.5	95.6	96.2	96.5	96.7	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2 800	94.0	95.4	95.7	95.9	96.5	96.7	97.0	97.6	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0
2 700	94.0	95.4	95.7	95.9	96.5	96.7	97.1	97.7	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1
2 600	94.1	95.6	96.0	96.1	96.7	97.0	97.4	98.0	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2 500	94.1	95.6	96.0	96.1	96.7	97.0	97.5	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7
2 400	94.1	95.6	96.0	96.1	96.7	97.0	97.5	98.6	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0
2 300	94.1	95.6	96.0	96.1	96.7	97.1	97.6	98.9	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6
2 200	94.1	95.6	96.0	96.1	96.9	97.2	97.9	99.1	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9
2 100	94.1	95.6	96.0	96.1	96.9	97.2	97.9	99.1	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9
2 0	94.1	95.6	96.0	96.1	96.9	97.2	97.9	99.1	99.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 796

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725690 NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .06	≥ .03
NO CEILING	56.5	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.0	57.0	57.0	57.0	57.0
≥ 25000	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5	67.5
≥ 18000	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5	67.5
≥ 16000	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.8	67.8	67.8
≥ 14000	67.4	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.9	68.0	68.0	68.0
≥ 12000	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.8	70.9	70.9	70.9
≥ 10000	73.5	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	74.0	74.1	74.1	74.1
≥ 9000	74.8	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.3	75.5	75.5	75.5
≥ 8000	76.2	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.7	76.9	76.9	76.9
≥ 7000	77.6	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.1	78.3	78.3	78.3
≥ 6000	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.9	80.0	80.0	80.0
≥ 5000	80.8	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.3	81.4	81.4	81.4
≥ 4500	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.7	82.8	82.8	82.8
≥ 4000	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.7	83.8	83.8	83.8
≥ 3500	83.7	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.5	84.5	84.5
≥ 3000	84.7	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.3	85.5	85.5	85.5
≥ 2500	85.6	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.6	86.7	86.7	86.7
≥ 2000	86.6	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.5	88.6	88.6	88.6
≥ 1800	87.4	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.3	89.4	89.4	89.4
≥ 1500	88.0	89.5	90.1	90.1	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4	90.6	90.8	90.8	90.8
≥ 1200	88.9	90.6	91.7	91.7	91.8	91.8	92.5	92.7	92.7	92.7	92.7	92.7	92.9	93.0	93.0	93.0
≥ 1000	89.1	91.4	92.4	92.4	92.8	92.8	93.8	93.9	93.9	94.2	94.2	94.4	94.4	94.6	94.6	94.6
≥ 900	89.4	91.7	92.8	92.8	93.2	93.3	94.2	94.7	94.7	94.9	94.9	95.2	95.3	95.3	95.3	95.3
≥ 800	89.6	91.9	93.0	93.0	93.4	93.7	94.6	95.2	95.2	95.4	95.4	95.7	95.8	95.8	95.8	95.8
≥ 700	89.9	92.2	93.3	93.3	93.7	93.9	94.8	95.6	95.6	95.8	96.0	96.2	96.3	96.3	96.3	96.3
≥ 600	90.0	92.3	93.4	93.4	93.8	94.2	95.1	95.8	95.8	96.2	96.3	96.6	96.7	96.7	96.7	96.7
≥ 500	90.0	92.3	93.4	93.4	93.8	94.2	95.2	96.2	96.2	96.6	96.8	97.1	97.2	97.2	97.2	97.2
≥ 400	90.0	92.3	93.4	93.4	93.8	94.2	95.2	96.7	96.7	97.7	98.0	98.2	98.4	98.4	98.4	98.4
≥ 300	90.1	92.4	93.6	93.6	93.9	94.4	95.4	97.0	97.0	98.0	98.2	98.5	98.6	98.6	98.6	98.6
≥ 200	90.1	92.4	93.6	93.7	94.1	94.6	95.6	97.1	97.1	98.1	98.5	98.7	99.1	99.2	99.4	99.4
≥ 100	90.1	92.4	93.6	93.7	94.1	94.6	95.6	97.1	97.1	98.1	98.5	98.7	99.2	99.4	99.5	99.5
≥ 0	90.1	92.4	93.6	93.7	94.1	94.6	95.6	97.1	97.1	98.4	98.7	99.1	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 791

GLCBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.7	58.7
≥ 2000	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1
≥ 1800	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 1600	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.3
≥ 1400	70.5	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7
≥ 1200	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4
≥ 1000	76.6	76.7	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
≥ 900	77.8	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 800	79.5	79.5	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 700	80.4	80.5	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 600	81.5	81.6	81.7	81.7	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 500	82.6	82.7	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0
≥ 450	83.5	83.7	83.7	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0
≥ 400	84.2	84.4	84.5	84.5	84.6	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 350	85.0	85.3	85.4	85.4	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7
≥ 300	86.0	86.3	86.5	86.5	86.6	86.6	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 250	86.8	87.3	87.5	87.6	87.7	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0
≥ 200	87.7	88.6	89.0	89.0	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5
≥ 180	88.0	89.0	89.4	89.5	89.7	89.7	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 150	88.4	89.6	90.1	90.2	90.5	90.6	90.7	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9
≥ 120	89.3	90.6	91.3	91.5	91.9	92.1	92.3	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7
≥ 100	89.8	91.2	91.9	92.2	92.7	92.9	93.4	93.7	93.7	93.9	93.9	94.0	94.0	94.0	94.0	94.0
≥ 90	89.9	91.5	92.3	92.6	93.2	93.4	93.9	94.3	94.3	94.6	94.6	94.6	94.7	94.7	94.7	94.7
≥ 80	90.2	91.8	92.7	93.0	93.6	93.9	94.5	95.1	95.1	95.5	95.6	95.6	95.6	95.6	95.6	95.6
≥ 70	90.4	92.1	92.9	93.3	93.9	94.2	94.9	95.4	95.4	95.8	96.0	96.0	96.0	96.0	96.1	96.1
≥ 60	90.5	92.3	93.2	93.6	94.3	94.6	95.3	95.9	95.9	96.3	96.5	96.5	96.6	96.6	96.6	96.6
≥ 50	90.6	92.6	93.6	94.0	94.7	95.0	95.8	96.5	96.5	97.1	97.3	97.3	97.4	97.4	97.4	97.4
≥ 40	90.7	92.8	93.8	94.3	95.0	95.3	96.2	97.1	97.1	97.8	98.1	98.2	98.3	98.3	98.3	98.3
≥ 30	90.8	93.0	94.0	94.6	95.3	95.6	96.5	97.4	97.5	98.3	98.7	98.7	98.8	98.8	98.9	98.9
≥ 20	90.8	93.0	94.1	94.6	95.4	95.7	96.7	97.6	97.7	98.5	99.0	99.1	99.3	99.3	99.4	99.4
≥ 10	90.8	93.0	94.1	94.6	95.4	95.7	96.7	97.6	97.7	98.5	99.0	99.1	99.3	99.4	99.5	99.6
≥ 0	90.8	93.0	94.1	94.6	95.4	95.7	96.7	97.6	97.7	98.6	99.2	99.3	99.6	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6343

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6	63.6	63.6
≥ 20000	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.8	70.8
≥ 18000	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.8	70.8
≥ 16000	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.8	70.8
≥ 14000	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7
≥ 12000	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2
≥ 10000	76.8	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3
≥ 9000	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9
≥ 8000	78.4	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4
≥ 7000	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	80.9
≥ 6000	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0
≥ 5000	82.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.6	82.6
≥ 4500	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.9	83.9	83.9
≥ 4000	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3
≥ 3500	85.5	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4
≥ 3000	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.9	87.9	87.9
≥ 2500	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.1	89.1	89.1
≥ 2000	88.5	90.2	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.7
≥ 1800	88.7	90.4	90.7	90.8	90.9	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2
≥ 1500	89.0	90.7	91.1	91.3	91.5	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9
≥ 1200	89.6	91.7	92.2	92.4	92.8	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.3	93.3	93.3
≥ 1000	89.7	91.8	92.3	92.5	93.0	93.0	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.9	93.9	93.9
≥ 900	89.7	91.8	92.3	92.5	93.1	93.1	93.5	93.8	93.8	93.8	94.0	94.0	94.0	94.1	94.1	94.1
≥ 800	89.8	91.9	92.6	93.4	94.6	94.6	95.0	95.2	95.2	95.2	95.5	95.7	95.7	95.8	95.8	95.8
≥ 700	90.1	92.3	93.0	93.9	95.2	95.3	95.7	96.0	96.0	96.2	96.4	96.4	96.4	96.6	96.6	96.6
≥ 600	90.2	92.6	93.4	94.2	95.8	96.1	96.7	96.9	96.9	97.2	97.4	97.4	97.4	97.5	97.5	97.5
≥ 500	90.2	92.8	93.5	94.4	96.0	96.3	97.1	97.3	97.3	97.5	97.8	97.8	97.8	97.9	97.9	97.9
≥ 400	90.3	93.1	93.9	94.7	96.4	96.8	97.5	97.8	97.8	98.3	98.5	98.5	98.5	98.7	98.7	98.7
≥ 300	90.3	93.1	93.9	94.7	96.7	97.1	97.8	98.0	98.0	98.5	98.9	98.9	98.9	99.0	99.0	99.0
≥ 200	90.4	93.3	94.0	94.9	96.8	97.2	98.2	98.4	98.4	98.9	99.6	99.6	99.6	99.9	99.9	99.9
≥ 100	90.4	93.3	94.0	94.9	96.8	97.2	98.2	98.4	98.4	98.9	99.6	99.6	99.6	99.9	99.9	99.9
≥ 0	90.4	93.3	94.0	94.9	96.8	97.2	98.2	98.4	98.4	98.9	99.6	99.6	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 816

USAF ETAC

FORM 101-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	64.4	64.5	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8
≥ 20000	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5
≥ 18000	71.4	71.5	71.5	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
≥ 16000	71.4	71.5	71.5	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
≥ 14000	71.8	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1
≥ 12000	73.4	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7
≥ 10000	75.3	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7
≥ 9000	75.8	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2
≥ 8000	76.8	76.9	76.9	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2
≥ 7000	77.1	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	78.8	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000	80.7	81.1	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5
≥ 4500	81.7	82.2	82.2	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000	82.3	82.8	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	84.3	84.9	84.9	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3000	85.2	86.1	86.3	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2500	86.5	87.6	87.7	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2
≥ 2000	87.2	88.7	88.8	89.1	89.4	89.4	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1800	87.6	89.6	89.8	90.1	90.4	90.4	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1500	87.7	89.7	89.9	90.2	90.6	90.6	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1200	88.2	90.7	91.0	91.4	91.8	91.8	92.1	92.1	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000	88.3	90.9	91.4	92.0	92.5	92.5	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0
≥ 900	88.6	91.2	91.7	92.3	92.8	92.8	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4
≥ 800	88.6	91.2	91.7	92.4	93.3	93.3	93.6	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	88.6	91.4	91.9	92.6	93.9	94.0	94.4	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1
≥ 600	89.0	91.9	92.5	93.3	95.0	95.2	95.7	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4
≥ 500	89.0	92.0	92.8	93.5	95.2	95.7	96.6	97.2	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7
≥ 400	89.0	92.1	93.1	93.9	95.7	96.2	97.1	97.7	97.8	97.9	98.4	98.4	98.4	98.4	98.4	98.4
≥ 300	89.0	92.1	93.1	93.9	95.7	96.2	97.1	97.7	97.8	97.9	98.4	98.4	98.5	98.8	98.8	98.8
≥ 200	89.0	92.1	93.3	94.0	96.1	96.6	97.8	98.2	98.3	98.8	99.3	99.3	99.5	99.9	99.9	99.9
≥ 100	89.0	92.1	93.3	94.0	96.1	96.6	97.5	98.2	98.3	98.9	99.4	99.4	99.6	100.0	100.0	100.0
≥ 0	89.0	92.1	93.3	94.0	96.1	96.6	97.5	98.2	98.3	98.9	99.4	99.4	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 815

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEAR

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0.01	≥ 0
NO CEILING	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4
≥ 20000	68.2	68.2	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.6
≥ 18000	68.4	68.4	68.4	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8
≥ 16000	68.6	68.6	68.6	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9
≥ 14000	69.7	69.7	69.7	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0
≥ 12000	71.6	71.6	71.6	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0
≥ 10000	75.2	75.2	75.2	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7
≥ 9000	76.7	76.7	76.7	76.8	76.9	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3
≥ 8000	77.5	77.5	77.5	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2
≥ 7000	79.1	79.2	79.2	79.5	79.6	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.0
≥ 6000	80.2	80.3	80.3	80.6	80.7	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.1
≥ 5000	80.8	80.9	80.9	81.2	81.3	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8
≥ 4500	81.6	81.7	81.8	82.0	82.2	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6
≥ 4000	82.5	82.6	82.6	83.0	83.1	83.1	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6
≥ 3500	83.5	83.6	83.7	84.0	84.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7
≥ 3000	84.7	85.0	85.1	85.3	85.6	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0
≥ 2500	86.0	86.3	86.7	87.0	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.9
≥ 2000	86.9	87.1	87.5	87.9	88.2	88.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8
≥ 1800	87.6	88.0	88.3	88.7	89.1	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7
≥ 1500	88.0	88.5	89.0	89.4	89.8	89.8	90.3	90.5	90.5	90.7	90.8	90.8	90.8	90.8	90.8	90.9
≥ 1200	88.3	89.1	89.6	90.0	90.4	90.4	91.0	91.3	91.3	91.4	91.5	91.5	91.5	91.5	91.5	91.6
≥ 1000	88.7	90.2	90.8	91.3	91.9	92.0	92.7	93.0	93.0	93.1	93.2	93.3	93.3	93.3	93.3	93.4
≥ 900	89.1	90.5	91.1	91.7	92.5	92.6	93.3	93.6	93.6	93.8	94.1	94.2	94.2	94.2	94.2	94.3
≥ 800	89.1	90.5	91.1	91.7	92.5	92.6	93.6	93.9	93.9	94.2	94.5	94.7	94.7	94.7	94.7	94.8
≥ 700	89.2	90.8	91.5	92.2	93.0	93.4	94.2	94.5	94.5	94.8	95.1	95.3	95.3	95.3	95.3	95.4
≥ 600	89.3	91.0	91.7	92.6	93.6	94.1	95.0	95.5	95.5	95.8	96.1	96.2	96.2	96.2	96.2	96.4
≥ 500	89.6	91.7	92.8	93.7	94.7	95.3	96.5	97.1	97.1	97.3	97.7	97.9	97.9	97.9	97.9	98.1
≥ 400	89.6	91.7	92.8	93.7	94.7	95.3	96.5	97.1	97.1	97.3	97.7	97.9	97.9	97.9	97.9	98.1
≥ 300	89.7	92.0	93.1	93.9	94.9	95.5	96.7	97.3	97.3	97.8	98.2	98.4	98.4	98.4	98.4	98.6
≥ 200	89.7	92.0	93.1	93.9	95.1	95.8	97.0	97.6	97.6	98.5	98.9	99.2	99.5	99.5	99.5	99.6
≥ 100	89.7	92.0	93.1	93.9	95.1	95.8	97.0	97.6	97.6	98.5	98.9	99.2	99.5	99.5	99.5	99.6
≥ 0	89.7	92.0	93.1	93.9	95.1	95.8	97.0	97.6	97.6	98.5	98.9	99.2	99.5	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725690

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
N 20000	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
N 18000	67.8	68.2	68.3	68.5	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
N 16000	68.1	68.5	68.6	68.7	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
N 14000	68.2	68.6	68.7	68.8	68.9	68.9	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
N 12000	69.3	69.7	69.8	69.9	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
N 10000	72.0	72.4	72.5	72.6	72.7	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
N 9000	78.1	78.5	78.6	78.7	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
N 8000	79.3	79.8	80.0	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
N 7000	80.6	81.1	81.2	81.3	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
N 6000	81.4	81.9	82.0	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
N 5000	82.6	83.1	83.3	83.4	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
N 4500	83.4	83.9	84.0	84.1	84.2	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
N 4000	83.7	84.4	84.5	84.6	84.8	84.8	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
N 3500	84.6	85.2	85.5	85.6	85.8	85.8	85.8	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
N 3000	85.0	85.6	85.8	85.9	86.2	86.2	86.4	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8
N 2500	85.8	86.4	86.7	86.8	87.0	87.0	87.3	87.5	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7
N 2000	86.7	87.3	87.5	87.7	88.0	88.0	88.4	88.8	88.8	88.9	89.1	89.1	89.1	89.1	89.1	89.1
N 1800	87.4	88.3	88.6	88.8	89.2	89.2	89.6	90.1	90.1	90.5	90.7	90.7	90.7	90.7	90.7	90.7
N 1500	87.9	88.8	89.2	89.4	89.9	89.9	90.2	90.7	90.7	91.1	91.3	91.3	91.3	91.3	91.3	91.3
N 1200	88.1	89.1	89.7	90.0	90.5	90.5	90.8	91.3	91.3	91.7	91.9	91.9	91.9	91.9	91.9	91.9
N 1000	88.4	89.5	90.1	90.5	91.1	91.1	91.7	92.4	92.4	93.0	93.3	93.3	93.3	93.3	93.3	93.3
N 900	88.9	90.3	91.2	91.8	92.5	92.5	93.3	94.0	94.0	94.6	94.9	94.9	94.9	94.9	94.9	94.9
N 800	89.4	91.0	91.8	92.4	93.3	93.3	94.1	95.1	95.1	95.7	96.0	96.0	96.2	96.2	96.2	96.2
N 700	89.6	91.4	92.4	93.0	93.9	94.1	95.0	96.3	96.3	97.1	97.3	97.3	97.6	97.6	97.6	97.6
N 600	89.9	91.7	92.7	93.3	94.3	94.3	95.4	96.7	96.7	97.4	97.7	97.7	97.9	97.9	97.9	97.9
N 500	90.0	91.9	92.9	93.6	94.6	94.6	95.7	97.1	97.1	97.9	98.2	98.2	98.4	98.4	98.4	98.4
N 400	90.0	92.1	93.2	93.9	94.9	95.1	96.0	97.6	97.6	98.4	98.8	98.8	99.0	99.0	99.0	99.0
N 300	90.0	92.1	93.2	94.0	95.0	95.2	96.1	97.7	97.7	98.5	98.9	99.1	99.4	99.5	99.5	99.5
N 200	90.0	92.1	93.2	94.0	95.0	95.2	96.1	97.8	97.8	98.7	99.0	99.3	99.5	99.6	99.6	99.6
N 100	90.0	92.1	93.2	94.0	95.0	95.2	96.1	97.8	97.8	98.7	99.0	99.3	99.5	99.6	99.6	99.6
N 0	90.0	92.1	93.2	94.0	95.0	95.2	96.1	97.8	97.8	98.7	99.0	99.3	99.5	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 818

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569C

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO. CEILING	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.5
≥ 20000	69.3	69.6	69.7	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.1
≥ 18000	69.8	70.1	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.5
≥ 16000	70.1	70.3	70.4	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8
≥ 14000	71.8	72.0	72.1	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5
≥ 12000	76.4	76.6	76.7	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1
≥ 10000	81.0	81.2	81.3	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7
≥ 9000	82.9	83.2	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6
≥ 8000	84.1	84.4	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.8
≥ 7000	84.6	84.8	85.0	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3
≥ 6000	84.8	85.1	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7
≥ 5000	85.3	85.6	85.7	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2
≥ 4500	85.8	86.1	86.2	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.7
≥ 4000	86.2	86.4	86.5	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3
≥ 3500	86.4	86.7	86.8	87.0	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5
≥ 3000	87.5	87.9	88.0	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7
≥ 2500	87.8	88.1	88.4	88.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.3
≥ 2000	88.8	89.2	89.6	89.9	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.7
≥ 1800	89.6	89.9	90.3	90.7	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.5
≥ 1500	89.9	90.3	90.7	91.3	91.8	91.8	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.1
≥ 1200	90.5	91.2	91.8	92.5	93.0	93.0	93.2	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.7
≥ 1000	91.4	92.2	93.0	93.7	94.3	94.3	94.7	95.2	95.2	95.3	95.5	95.6	95.6	95.6	95.6	95.8
≥ 900	91.6	92.5	93.3	94.2	95.0	95.2	95.5	96.0	96.0	96.2	96.5	96.6	96.7	96.7	96.7	96.8
≥ 800	91.8	92.6	93.5	94.3	95.3	95.5	95.9	96.7	96.8	97.2	97.6	97.7	97.8	97.8	97.8	97.9
≥ 700	91.8	92.7	93.6	94.4	95.4	95.6	96.0	96.8	97.0	97.5	97.8	97.9	98.2	98.2	98.2	98.3
≥ 600	91.8	92.7	93.6	94.4	95.5	95.8	96.1	97.0	97.1	97.6	98.1	98.2	98.4	98.4	98.5	98.7
≥ 500	91.8	93.0	93.8	94.7	95.8	96.0	96.4	97.2	97.3	97.8	98.3	98.4	98.8	98.8	98.9	99.0
≥ 400	91.8	93.0	93.9	94.8	95.9	96.1	96.6	97.5	97.6	98.1	98.5	98.7	99.0	99.0	99.2	99.3
≥ 300	91.8	93.0	93.9	94.8	95.9	96.1	96.6	97.5	97.6	98.1	98.5	98.7	99.0	99.0	99.2	99.4
≥ 200	91.8	93.0	93.9	94.8	95.9	96.1	96.6	97.5	97.6	98.1	98.7	98.8	99.3	99.3	99.5	99.8
≥ 100	91.8	93.0	93.9	94.8	95.9	96.1	96.6	97.5	97.6	98.1	98.7	98.8	99.3	99.3	99.6	99.9
≥ 0	91.8	93.0	93.9	94.8	95.9	96.1	96.6	97.5	97.6	98.1	98.7	98.8	99.3	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 825

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725692

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO. OF HOURS ≥ 20000	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 8000	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 15000	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 14000	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 10000	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 9000	78.7	78.9	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 8000	80.9	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 7000	82.5	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 6000	84.1	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 5000	84.9	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4500	86.3	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4000	86.8	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 3500	87.6	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 3000	89.2	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2500	89.9	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2000	90.6	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1800	91.6	92.2	92.4	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	91.9	92.6	92.7	92.7	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	92.2	93.1	93.3	93.3	93.7	93.7	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000	92.9	93.7	94.0	94.1	94.5	94.6	94.7	95.0	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3
≥ 900	93.3	94.7	95.0	95.1	95.8	95.9	96.1	96.6	96.6	96.9	96.9	96.9	97.0	97.0	97.0	97.0
≥ 800	93.3	94.7	95.0	95.1	95.8	95.9	96.1	96.6	96.6	97.0	97.0	97.0	97.3	97.3	97.4	97.4
≥ 700	93.5	94.8	95.2	95.3	96.1	96.2	96.6	97.2	97.2	97.7	97.7	97.7	97.9	97.9	98.0	98.0
≥ 600	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	97.9	97.9	97.9	98.2	98.2	98.3	98.3
≥ 500	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.0	98.2	98.2	98.4	98.4	98.6	98.6
≥ 400	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.2	98.6	98.6	99.0	99.0	99.3	99.3
≥ 300	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.3	98.8	98.8	99.3	99.3	99.5	99.5
≥ 200	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.4	98.9	98.9	99.5	99.5	99.8	99.8
≥ 100	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.4	98.9	98.9	99.5	99.5	99.8	99.8
≥ 0	93.5	95.0	95.3	95.4	96.2	96.3	96.8	97.4	97.4	98.4	98.9	98.9	99.5	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 812

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

725692

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 20000	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 18000	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 16000	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 14000	69.0	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 12000	71.7	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000	77.9	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000	79.8	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 7000	81.7	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 5000	82.9	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 4500	83.5	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000	85.0	85.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3500	85.9	86.2	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000	87.7	88.1	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2500	88.1	88.4	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2000	89.8	90.5	90.9	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	90.4	91.3	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	91.1	92.0	92.5	92.6	92.9	92.9	93.1	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1200	91.4	92.4	93.1	93.2	93.6	93.6	93.8	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1000	91.5	92.5	93.5	93.8	94.2	94.2	94.6	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	91.6	92.7	93.7	94.1	94.5	94.5	94.8	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	91.4	92.7	93.7	94.1	94.5	94.5	94.8	95.6	95.6	95.8	96.1	96.1	96.2	96.2	96.2	96.2
≥ 700	92.0	93.1	94.2	94.6	95.1	95.1	95.4	96.3	96.3	96.8	97.0	97.0	97.2	97.2	97.2	97.2
≥ 600	92.0	93.1	94.2	94.6	95.2	95.2	95.6	96.6	96.6	97.0	97.4	97.4	97.7	97.7	97.7	97.7
≥ 500	92.0	93.2	94.3	94.7	95.3	95.3	95.8	96.8	96.8	97.4	98.2	98.2	98.5	98.5	98.5	98.5
≥ 400	92.0	93.2	94.3	94.7	95.3	95.3	95.8	96.8	96.8	97.4	98.2	98.2	98.5	98.5	98.5	98.5
≥ 300	92.0	93.2	94.3	94.7	95.3	95.3	95.8	96.8	96.8	97.4	98.3	98.3	98.8	99.0	99.1	99.1
≥ 200	92.0	93.2	94.3	94.7	95.4	95.4	95.9	96.9	96.9	97.5	98.4	98.4	98.9	99.1	99.4	99.4
≥ 100	92.0	93.2	94.3	94.7	95.4	95.4	95.9	96.9	96.9	97.5	98.4	98.4	98.9	99.1	99.4	99.4
≥ 0	92.0	93.2	94.3	94.7	95.4	95.4	95.9	96.9	96.9	97.5	98.4	98.4	99.0	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 813

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725691

NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET		VISIBILITY STATUTE MILES															
		210	200	180	160	140	120	100	80	60	40	20	10	5	3	2	1
10000	10000	59.6	59.9	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.2
8000	8000	68.2	68.6	68.6	68.8	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.2
6000	6000	68.2	68.6	68.6	68.8	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.2
4000	4000	68.3	68.7	68.7	69.0	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.3
2000	2000	71.1	71.4	71.4	71.7	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	72.0
1000	1000	74.1	74.5	74.5	74.8	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.1
800	800	75.4	75.7	75.7	76.0	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.4
600	600	77.1	77.5	77.5	77.7	77.8	77.8	77.8	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.1
400	400	78.8	79.2	79.2	79.4	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.8
200	200	79.8	80.3	80.3	80.5	80.7	80.7	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.9
100	100	80.3	81.0	81.0	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.7
80	80	81.4	82.4	82.4	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1
60	60	82.4	83.4	83.4	83.7	83.9	83.9	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.2
40	40	84.2	85.0	85.0	85.3	85.5	85.5	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.8
20	20	85.8	86.9	86.9	87.3	87.7	87.8	87.8	87.9	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.2
10	10	87.6	88.8	89.3	89.7	89.8	89.8	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.1
8	8	89.2	90.8	91.3	91.6	91.7	91.7	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.1
6	6	89.5	91.1	91.6	92.0	92.1	92.1	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.5
4	4	89.7	91.4	91.9	92.2	92.4	92.4	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.1
2	2	89.8	91.5	92.6	93.1	93.2	93.2	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.1
1	1	90.1	91.9	93.1	93.7	93.8	93.8	94.5	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	95.0
0.8	0.8	90.1	92.0	93.2	94.1	94.3	94.3	95.0	95.1	95.1	95.3	95.4	95.4	95.4	95.4	95.4	95.6
0.6	0.6	90.1	92.0	93.2	94.2	94.5	94.5	95.2	95.3	95.3	95.7	95.9	95.9	95.9	95.9	95.9	96.1
0.4	0.4	90.4	92.2	93.5	94.5	94.7	94.7	95.4	95.6	95.6	96.1	96.4	96.4	96.4	96.4	96.4	96.6
0.2	0.2	90.4	92.2	93.6	94.6	94.8	94.8	95.6	95.7	95.7	96.3	96.7	96.7	96.7	96.7	96.7	96.8
0.1	0.1	90.6	92.6	94.0	95.0	95.2	95.2	95.9	96.1	96.1	96.7	97.3	97.3	97.5	97.5	97.5	97.8
0.08	0.08	90.8	92.7	94.1	95.1	95.3	95.3	96.1	96.2	96.2	96.9	97.5	97.5	97.9	97.9	97.9	98.2
0.06	0.06	91.0	93.0	94.5	95.4	95.7	95.7	96.6	96.7	96.7	97.4	98.0	98.0	98.4	98.4	98.4	98.9
0.04	0.04	91.1	93.1	94.7	95.7	96.2	96.2	97.2	97.3	97.3	98.0	98.6	98.6	99.1	99.1	99.1	99.8
0.02	0.02	91.1	93.1	94.7	95.7	96.2	96.2	97.2	97.3	97.3	98.0	98.6	98.6	99.1	99.1	99.1	99.9
0.01	0.01	91.1	93.1	94.7	95.7	96.2	96.2	97.2	97.3	97.3	98.0	98.6	98.6	99.1	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 812

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11
1/2	58.9	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2
1/4	68.7	68.9	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2
1/8	68.9	69.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4
1/4	69.0	69.2	69.2	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5
1/2	70.0	70.2	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.5
1/4	72.9	73.2	73.2	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5
1/8	76.9	77.1	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5
1/4	78.4	78.7	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0
1/2	79.7	79.9	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.3
1/4	80.9	81.2	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
1/8	81.9	82.2	82.2	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6
1/4	82.7	83.1	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5
1/2	83.5	83.9	84.0	84.1	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.4
1/4	84.3	84.7	84.8	85.0	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3
1/8	85.5	86.0	86.0	86.2	86.3	86.3	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6
1/4	86.6	87.3	87.5	87.6	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0
1/2	87.6	88.3	88.6	88.7	89.0	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.3
1/4	88.7	89.6	89.9	90.1	90.5	90.5	90.6	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8
1/8	89.2	90.2	90.5	90.8	91.1	91.1	91.3	91.3	91.3	91.4	91.5	91.5	91.5	91.5	91.5	91.5
1/4	89.5	90.6	91.0	91.3	91.6	91.6	91.9	92.0	92.0	92.1	92.2	92.2	92.2	92.2	92.2	92.3
1/2	89.9	91.2	91.8	92.1	92.5	92.5	92.9	93.1	93.1	93.3	93.4	93.4	93.4	93.4	93.4	93.5
1/4	90.3	91.8	92.5	93.0	93.5	93.5	94.0	94.4	94.4	94.6	94.7	94.7	94.8	94.8	94.8	94.8
1/8	90.4	92.0	92.8	93.3	93.9	94.0	94.4	94.9	94.9	95.1	95.3	95.3	95.4	95.4	95.4	95.5
1/4	90.5	92.1	92.9	93.6	94.3	94.4	95.0	95.5	95.6	95.9	96.1	96.2	96.3	96.3	96.3	96.3
1/2	90.7	92.4	93.2	93.9	94.7	94.9	95.4	96.0	96.1	96.4	96.7	96.7	96.8	96.8	96.9	96.9
1/4	90.8	92.6	93.4	94.1	95.1	95.3	95.9	96.5	96.6	97.0	97.3	97.3	97.5	97.5	97.5	97.6
1/8	90.8	92.8	93.7	94.4	95.4	95.7	96.4	97.1	97.1	97.6	98.0	98.1	98.3	98.3	98.3	98.4
1/4	90.8	92.9	93.8	94.5	95.6	95.8	96.6	97.3	97.3	97.9	98.3	98.4	98.7	98.7	98.8	98.8
1/2	90.9	92.9	93.8	94.6	95.7	95.9	96.7	97.4	97.4	98.0	98.5	98.6	98.9	99.0	99.1	99.1
1/4	90.9	93.0	94.0	94.7	95.8	96.1	96.9	97.6	97.7	98.3	98.9	99.0	99.4	99.5	99.6	99.7
1/8	90.9	93.0	94.0	94.7	95.8	96.1	96.9	97.6	97.7	98.4	98.9	99.0	99.4	99.5	99.7	99.8
1/4	90.9	93.0	94.0	94.7	95.8	96.1	96.9	97.6	97.7	98.4	98.9	99.0	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6535

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72569 NATRONA CO/CASPER WY

73-81

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

		VISIBILITY - STATUTE MILES															
		2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
1	1000	61.2	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
2	800	69.8	69.9	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2
3	600	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
4	400	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
5	200	73.6	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0
6	100	76.5	76.7	76.7	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
7	50	77.8	78.0	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3
8	25	79.0	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
9	10	80.2	80.4	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7
10	5	82.0	82.2	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
11	2 1/2	84.3	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
12	1 1/2	85.2	85.5	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8
13	3/4	86.3	86.6	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0
14	1/2	87.3	87.4	87.8	87.8	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1
15	1/4	88.4	88.8	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3
16	1/8	89.2	89.8	90.0	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4
17	1/16	90.1	90.9	91.2	91.3	91.5	91.5	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8
18	1/32	90.5	91.3	91.6	91.8	92.0	92.0	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2
19	1/64	90.9	91.9	92.3	92.5	92.8	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2
20	1/128	91.6	92.8	93.3	93.7	94.0	94.0	94.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.6
21	1/256	92.0	93.3	93.9	94.3	94.7	94.8	95.1	95.3	95.3	95.5	95.5	95.5	95.5	95.6	95.6	95.6
22	1/512	92.2	93.6	94.2	94.6	95.1	95.2	95.5	95.8	95.8	96.0	96.0	96.0	96.1	96.1	96.1	96.1
23	1/1024	92.4	93.9	94.6	95.1	95.5	95.7	96.0	96.4	96.4	96.7	96.8	96.8	96.9	96.9	96.9	96.9
24	1/2048	92.5	94.1	94.9	95.3	95.9	96.0	96.4	96.8	96.8	97.1	97.2	97.2	97.3	97.3	97.3	97.3
25	1/4096	92.7	94.3	95.1	95.6	96.2	96.3	96.7	97.2	97.2	97.6	97.8	97.8	97.8	97.8	97.8	97.9
26	1/8192	92.8	94.6	95.4	95.9	96.5	96.7	97.1	97.6	97.7	98.1	98.3	98.3	98.4	98.4	98.4	98.5
27	1/16384	92.9	94.7	95.6	96.2	96.8	97.0	97.5	98.0	98.1	98.5	98.8	98.8	99.0	99.0	99.0	99.0
28	1/32768	92.9	94.8	95.8	96.3	97.0	97.2	97.7	98.2	98.3	98.8	99.1	99.1	99.3	99.3	99.4	99.4
29	1/65536	92.9	94.9	95.8	96.4	97.1	97.3	97.8	98.4	98.4	99.0	99.4	99.4	99.6	99.6	99.7	99.8
30	1/131072	92.9	94.9	95.8	96.4	97.1	97.3	97.8	98.4	98.5	99.0	99.4	99.4	99.7	99.7	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 77188

PART D

SKY COVER

Stations that report both synoptic and airways observations have had their sky cover reports converted into airways. The synoptic hours have significantly lower observation counts than the airways, hence, a small percentage of observations were reported in the 1/10, 4/10, 5/10, 6/10, and 8/10 categories. In order to use this data more beneficially we have combined:

1/10, 4/10, and 5/10 into the 3/10 (scattered) category  
6/10 and 8/10 into the 9/10 (broken) category  
0/10 is the clear category  
10/10 is the overcast category

## SKY COVER

73-81

JAN

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	0-02	28.1			20.5						14.3	37.1	5.6	823
	03-05	28.1			20.0						14.4	37.5	5.6	826
	06-08	18.8			18.9						21.2	41.2	6.6	816
	09-11	17.5			15.6						20.9	46.0	6.9	818
	12-14	14.4			19.4						22.4	43.8	7.0	811
	15-17	13.8			19.3						24.4	42.4	7.0	827
	18-20	21.1			19.9						16.9	42.0	6.3	828
	21-23	24.1			22.1						15.7	38.0	5.9	820
TOTALS		20.7			19.5						18.8	41.0	6.4	6569

## SKY COVER

FEB

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	00-02	26.6			23.0						15.4	35.0	5.6	745
	3-05	27.5			21.5						15.3	35.6	5.6	752
	6-08	17.6			21.9						18.9	41.6	6.5	750
	09-11	17.0			16.5						24.3	42.2	6.9	746
	12-14	14.7			19.7						23.6	42.0	6.9	753
	15-17	15.9			17.5						22.7	44.0	7.0	750
	18-20	21.0			15.0						21.6	42.3	6.6	751
	21-23	23.3			19.8						21.3	35.5	6.1	746
TOTALS		20.5			19.4						20.4	39.8	6.4	5993



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

## SKY COVER

72569 NATRONA CO/CASPER WY

73-81

MAR

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
MAR	00-02	28.6			18.0						14.5	38.9	5.7	818
	03-05	27.1			16.3						15.0	41.6	6.0	820
	06-08	18.5			18.4						18.6	44.5	6.7	822
	09-11	16.3			17.5						20.8	45.5	6.9	824
	12-14	11.2			20.0						23.4	45.5	7.3	825
	15-17	10.7			15.9						27.3	46.1	7.5	829
	18-20	15.5			19.5						21.6	43.4	6.9	820
	21-23	25.4			21.1						16.2	37.4	5.8	816
TOTALS		19.2			18.3						19.7	42.9	6.6	6574

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

APR

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	0-02	27.1			16.4						18.6	37.8	6.0	785
	03-05	23.5			22.0						15.8	38.6	5.9	795
	06-08	19.7			17.4						16.4	46.5	6.6	792
	09-11	15.3			22.1						21.7	40.8	6.7	796
	12-14	10.0			17.8						26.9	45.4	7.5	793
	15-17	6.8			20.9						25.3	47.0	7.6	791
	18-20	11.0			21.1						20.3	47.6	7.2	792
	21-23	22.8			20.9						16.3	39.9	6.1	789
TOTALS		17.0			19.8						20.2	43.0	6.7	6333

## SKY COVER

72569

NATRONA CO/CASPER WY

73-81

MAY

STATION

STATION NAME

PERIOD

**MONTH**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02	27.8			27.2						16.4	35.6	5.6	825
	03-05	21.3			25.1						19.1	34.5	5.9	821
	06-08	17.3			21.3						21.2	40.3	6.6	822
	09-11	12.3			21.1						24.4	42.3	7.1	821
	12-14	5.3			20.0						31.7	42.9	7.8	813
	15-17	6.1			18.9						28.6	46.5	7.8	826
	18-20	9.8			18.8						24.1	47.3	7.5	826
	21-23	21.2			24.3						18.5	36.0	6.0	820
TOTALS		15.1			21.2						23.0	40.7	6.8	6574

## SKY COVER

**JUN**  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUN	00-02	40.7			25.8						12.7	20.8	4.0	794
	03-05	35.3			28.6						18.2	17.9	4.3	797
	06-08	31.9			29.5						19.5	19.1	4.6	794
	09-11	28.7			28.6						23.3	19.4	4.9	794
	12-14	14.6			32.6						29.1	23.7	6.0	794
	15-17	11.2			27.6						34.9	26.3	6.6	787
	18-20	16.4			29.2						29.2	25.3	6.0	792
	21-23	29.4			31.7						18.9	20.0	4.6	795
TOTALS		26.0			29.2						23.2	21.6	5.1	6347

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SKY COVER

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
PERIOD

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	43.0			24.3						18.8	14.0	3.8	816
	03-05	36.2			32.4						17.6	13.8	3.9	824
	06-08	33.5			30.6						19.5	16.4	4.3	819
	09-11	36.2			31.2						19.4	13.3	4.0	821
	12-14	17.0			39.1						31.5	12.4	5.2	816
	15-17	11.9			30.7						39.1	18.3	6.3	814
	18-20	16.5			29.6						27.8	26.1	6.0	812
	21-23	28.8			30.4						21.8	19.0	4.8	820
TOTALS		27.9			31.0						24.4	16.7	4.8	6542

USAFETAC

FORM  
JA 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SKY COVER

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
PERIOD

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
AUG	00-02	46.5			21.8						16.0	15.8	3.7	818
	03-05	41.7			28.2						15.3	14.8	3.7	824
	06-08	33.0			25.3						21.5	20.1	4.7	817
	09-11	34.7			29.0						18.6	17.7	4.3	807
	12-14	19.3			35.8						27.6	17.3	5.3	822
	15-17	13.5			32.5						32.7	21.3	6.1	816
	18-20	22.0			27.6						27.9	22.6	5.6	829
	21-23	34.5			28.8						19.4	17.3	4.3	826
TOTALS		30.7			28.6						22.4	18.4	4.7	6559

USAFETAC

FORM  
JUL 64 8-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

72569

NATRONA CO/CASPER WY

73-81

SEP

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	55.9			18.3						9.9	15.8	3.0	796
	03-05	50.6			22.9						12.9	13.6	3.2	792
	06-08	37.8			24.6						15.8	21.9	4.3	786
	09-11	36.8			22.6						20.3	20.3	4.5	797
	12-14	28.9			26.5						23.7	20.9	5.0	789
	15-17	26.6			26.1						26.5	20.8	5.2	797
	18-20	33.2			28.9						20.2	17.7	4.5	781
	21-23	45.7			25.3						14.7	14.2	3.5	794
TOTALS		39.4			24.4						18.0	18.2	4.2	6332

USAFETAC

FORM  
JUL 64 8-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

OCT

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02	47.4			14.1						11.2	27.3	4.2	822
	03-05	44.6			19.2						12.1	24.0	4.1	816
	06-08	28.2			22.4						18.5	30.9	5.4	812
	09-11	25.7			20.3						22.1	31.9	5.8	818
	12-14	26.0			21.8						20.3	31.8	5.7	807
	15-17	24.9			19.7						23.6	31.8	5.9	827
	18-20	30.6			20.1						20.4	28.9	5.3	820
	21-23	40.8			16.9						13.1	29.2	4.6	811
TOTALS		33.5			19.3						17.7	29.5	5.1	6533



## SKY COVER

NOV

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
NOV	00-02	36.4			19.7						11.3	32.6	4.9	795
	03-05	37.5			18.0						13.1	31.4	4.9	795
	06-08	24.7			20.4						16.8	38.1	5.9	796
	09-11	18.4			21.6						19.8	40.2	6.4	792
	12-14	17.3			19.4						24.6	38.7	6.7	790
	15-17	16.0			21.7						26.3	36.0	6.6	792
	18-20	24.2			19.7						19.4	36.6	6.0	797
	21-23	28.4			16.1						18.4	37.2	5.9	790
TOTALS		25.4			19.6						18.7	36.4	5.9	6347

## SKY COVER

DEC

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
D.F.C.	0-02	31.2			21.1						13.9	33.9	5.3	815
	3-05	29.3			21.4						16.1	33.2	5.4	816
	6-08	19.1			21.7						22.0	37.3	6.4	824
	9-11	15.9			17.0						22.5	44.7	7.0	819
	12-14	14.9			21.2						24.3	39.7	6.8	821
	15-17	14.8			20.2						25.5	39.6	6.9	811
	18-20	24.5			19.1						18.4	38.0	6.0	816
	21-23	23.3			21.7						16.1	33.9	5.5	812
TOTALS		22.3			20.4						19.9	37.5	6.2	6542

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

## SKY COVER

20569 NATRONA CO/CASPER WY

73-81

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	20.7			19.5						18.8	41.0	6.4	6569
FEB		20.5			19.4						20.4	39.8	6.4	5993
MAR		19.2			18.3						19.7	42.9	6.6	6574
APR		17.0			19.8						20.2	43.0	6.7	6333
MAY		15.1			21.2						23.0	40.7	6.8	6574
JUN		26.0			29.2						23.2	21.6	5.1	6347
JUL		27.9			31.0						24.4	16.7	4.8	6542
AUG		30.7			28.6						22.4	18.4	4.7	6559
SEP		39.4			24.4						18.0	18.2	4.2	6332
OCT		33.5			19.3						17.7	29.5	5.1	6533
NOV		25.4			19.6						18.7	36.4	5.9	6347
DEC		22.3			20.4						19.9	37.5	6.2	6542
TOTALS		24.8			22.6						20.5	32.1	5.7	77245

USAFETAC

FORM  
JUL 64 8-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

\* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and comparisons of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\Sigma X^2$ ), sums of values ( $\Sigma X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
75569 NATRONA CO/CASPER WY  
STATION STATION NAME

50-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100						.2	.7	.1					.1
95						1.7	9.3	3.5	.2				1.2
90					.1	11.4	39.7	27.5	4.5				7.1
85					2.9	31.6	72.1	62.2	19.6	.1			15.9
80				.7	10.9	48.3	87.2	81.0	40.6	3.2			23.0
75				4.5	24.5	66.8	94.4	90.6	58.6	14.1			29.8
70			1.0	13.3	41.5	81.7	98.0	95.4	70.0	30.1	.3		36.3
65		.1	4.3	26.5	57.6	89.4	98.8	97.9	79.8	45.3	3.2		42.3
60	.1	1.7	10.0	40.2	72.1	95.1	99.6	99.3	86.8	59.5	11.0	.3	48.4
55	1.2	5.5	20.6	54.0	84.4	98.5	99.8	99.8	92.5	71.5	23.0	2.6	54.9
50	5.5	14.7	33.2	65.9	91.3	99.2	100.0	100.0	94.9	80.9	37.1	11.5	61.7
45	18.2	28.5	49.8	78.3	95.5	99.5			98.0	87.8	51.7	24.4	69.7
40	34.1	48.1	64.7	86.9	98.0	99.8			99.4	94.3	66.7	40.5	78.0
35	51.2	63.5	77.4	93.9	99.1	100.0			99.8	97.5	77.2	57.7	84.9
30	66.9	77.1	86.8	98.6	99.9				99.9	98.7	86.6	74.8	90.9
25	77.1	87.1	93.2	99.7	100.0				100.0	99.3	93.5	85.5	94.7
20	85.1	93.2	96.4	99.9						99.7	96.7	92.2	97.0
15	89.7	96.5	97.9	100.0						99.9	99.2	95.5	98.2
10	93.9	98.1	99.0							100.0	99.7	97.6	99.0
5	96.3	99.3	99.7								99.8	98.5	99.5
0	98.6	99.8	100.0								99.9	99.2	99.8
-5	99.6	100.0									100.0	99.6	99.9
-10	99.8											100.0	100.0
-15	99.9												100.0
-20	100.0												100.0
MEAN	32.9	37.6	43.7	55.1	65.8	78.1	86.9	84.8	74.2	61.1	44.2	35.9	58.4
S.D.	12.768	11.595	12.681	12.504	11.418	10.112	6.929	7.314	12.001	12.656	12.432	11.520	21.929
TOTAL OBS	961	876	992	960	992	960	992	992	960	992	960	992	11629

GLOBAL CLIMATOLOGY BRANCH

SAFETAC

AT WEATHER SERVICE/MAC

7-569 NATRONA CO/CASPER WY.

STATION

STATION NAME

50-81

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
7							.1	.2					.1
15							3.3	2.9	.1				.5
23						2.7	19.2	13.2	1.1				3.1
31					.5	11.9	51.7	39.0	6.4	.3			9.3
39				.2	5.1	38.6	83.5	71.0	19.2	2.3			18.6
47				2.0	19.9	70.9	96.2	91.6	41.6	8.8	.3	.2	28.0
55	.1	.8	1.0	8.5	47.8	91.2	99.2	98.6	66.5	22.1	3.5	1.2	37.1
63	2.5	3.5	6.7	24.0	71.2	98.1	99.8	99.7	84.1	44.2	12.4	4.8	46.1
71	5.1	5.8	11.1	34.8	81.2	99.0	99.9	100.0	90.0	54.5	17.4	8.1	51.1
79	10.5	11.8	21.7	52.9	93.9	99.8	100.0		95.5	70.0	28.6	14.5	58.7
87	23.1	24.9	40.5	76.1	98.5	100.0			98.7	87.5	46.7	27.7	69.1
95	36.6	45.1	58.3	92.1	99.5				99.7	95.5	63.7	41.5	78.0
103	58.7	61.9	74.4	97.5	100.0				100.0	98.5	78.2	58.8	85.2
111	62.6	74.2	84.6	98.5						99.2	85.0	72.5	89.9
119	72.5	83.8	89.5	99.4						99.6	91.2	82.2	93.3
127	80.1	90.3	94.4	99.6						99.8	95.1	88.4	95.7
135	86.1	94.3	97.6	100.0						100.0	97.7	93.1	97.4
143	89.9	96.7	98.9								99.4	96.0	98.4
151	93.3	99.2	99.7								100.0	97.9	99.2
159	96.5	99.9	99.9									99.0	99.6
167	98.8	100.0	100.0									99.1	99.8
175	99.7											99.1	99.9
183	99.8											100.0	100.0
191	100.0												100.0
MEAN	12.2	16.4	20.3	29.5	38.7	47.5	54.4	52.7	42.6	33.4	22.1	15.9	32.2
S.D.	15.220	11.867	11.129	7.545	6.526	6.088	5.624	6.003	7.809	8.168	11.528	13.089	17.337
TOTAL OBS	961	876	992	960	992	992	992	992	960	992	960	992	116

2

GLOBAL CLIMATOLOGY BRANCH

USAFETAC

AIR WEATHER SERVICE/MAC

72569

NATRONA CO/CASPER WY

STATION

STATION NAME

50-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
40							.2						.0
35						.4	3.5	1.5	.1				.5
30						4.1	26.7	14.8	1.4				4.0
25					.7	20.6	66.1	53.3	9.6				12.7
20				.1	5.7	44.9	89.1	80.6	27.1	1.3			21.0
15				2.1	20.7	69.4	96.6	92.8	52.8	9.1			29.0
10			.8	8.7	43.6	87.2	99.2	98.1	70.1	25.3	.9		36.6
5		.6	4.5	23.7	65.6	95.9	99.7	99.6	83.7	45.6	6.4	.5	44.3
0	1.2	4.5	13.0	43.0	85.1	98.6	100.0	100.0	92.5	63.7	16.7	3.4	52.3
-5	6.9	11.4	27.4	63.5	94.7	99.5			96.2	78.9	33.1	11.2	60.7
-10	20.2	27.5	45.9	80.1	98.1	99.9			99.6	89.7	50.9	26.2	70.3
-15	36.5	48.5	63.9	90.8	99.4	100.0			99.7	96.6	66.4	41.3	78.9
-20	52.0	63.0	77.0	97.0	99.9				99.9	98.6	79.2	58.7	85.7
-25	64.6	76.9	86.9	99.4	100.0				100.0	99.2	87.1	74.3	90.9
-30	76.4	86.3	92.2	99.6						99.5	92.9	85.3	94.4
-35	83.9	92.5	96.1	99.9						99.9	96.9	92.0	96.8
-40	88.8	95.2	98.2	100.0						100.0	99.0	95.1	98.0
-45	92.0	98.3	99.1								99.6	97.0	98.8
-50	95.5	99.7	99.8								99.9	98.3	99.4
-55	97.9	100.0	100.0								100.0	99.1	99.7
-60	99.4											99.7	99.9
-65	99.9											100.0	100.0
-70	100.0												100.0
MEAN	22.7	27.2	32.2	42.5	52.5	63.1	71.0	69.0	58.7	47.5	33.4	26.1	45.5
S.D.	13.585	11.288	11.333	9.226	8.074	7.350	5.405	5.746	9.052	9.623	11.449	11.889	19.249
TOTAL OBS.	961	876	992	960	992	960	992	992	960	992	960	992	11629

USAFETAC FORM 0-21.5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

725690 NATRONA CO/CASPER WY  
STATION STATION NAME

50-81

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
50			66	76	80	88	91	93	93	80	62	52	
51	51	60	64	69	83	83	97	92	85	76	57	51	97
52	48	53	54	81	83	92	99	92	93	80	66	53	99
53	57	55	71	77	84	97	100	93	89	83	68	46	100
54	52	60	58	75	89	101	104	95	91	80	67	49	104
55	48	46	55	74	83	88	96	96	91	78	61	53	96
56	54	51	70	69	82	95	95	91	89	82	60	51	95
57	45	56	62	70	77	89	95	95	85	85	51	51	95
58	47	64	56	74	87	94	93	96	91	81	65	56	96
59	53	48	57	77	81	95	100	94	92	71	64	54	100
60	45	44	70	76	87	93	96	95	93	79	59	55	96
61	53	55	67	73	85	95	94	96	84	74	53	50	96
62	48	65	64	81	83	93	94	93	84	80	65	58	94
63	51	63	67	75	83	95	96	91	88	84	64	52	96
64	48	45	65	71	89	91	95	94	86	78	64	52	95
65	50	53	60	75	79	84	92	96	83	80	71	59	96
66	51	46	73	72	87	94	99	93	88	76	62	52	99
67	51	55	70	73	86	87	95	95	91	77	59	42	95
68	48	53	68	75	79	91	95	95	88	75	61	52	95
69	53	53	69	80	91	92	97	99	91	72	63	53	99
70	56	56	63	70	81	101	95	95	87	82	58	54	101
71	60	57	70	74	84	94	96	95	90	81	57	51	96
72	45	61	70	70	85	92	93	98	84	76	52	46	98
73	50	49	55	66	83	93	99	97	86	80	67	61	96
74	35	48	65	75	81	94	95	91	88	80	58	52	95
75	49	48	61	75	82	89	95	94	90	84	69	57	95
76	49	54	62	72	85	88	99	92	92	82	64	52	99
77	46	58	64	79	82	93	99	91	91	79	70	54	99
78	42	48	72	72	86	92	97	95	96	76	69	42	97
79	38	47	58	75	85	95	98	102	92	83	55	51	102
MEAN													
S. D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)

(2)

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

50-81

YEARS

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

0-00-5 (OL A)

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

72569 NATRONA CO/CASPER WY

50-81

STATION

STATION NAME

YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
50			-6	15	20	34	42	41	30	15	-6	-13	
51	-23	-16	-9	14	30	28	43	42	23	13	1	-17	-23
52	-17	0	-7	19	32	43	41	37	34	14	-11	2	-17
53	-4	-6	4	14	16	39	49	47	33	25	1	1	-6
54	-11	3	-11	20	17	35	47	43	32	17	6	5	-11
55	-6	-10	-15	8	34	38	43	47	32	22	-12	-6	-15
56	-6	-12	-13	16	29	41	47	36	30	22	-7	-10	-13
57	-22	-2	-4	9	32	39	44	47	31	22	5	0	-22
58	5	-7	-2	15	26	42	43	40	29	18	-9	-1	-9
59	-25	-3	5	13	32	39	39	44	24	21	-11	2	-25
60	-11	-19	-19	16	30	37	49	38	36	20	2	-3	-19
61	-5	8	11	17	29	43	46	50	24	13	2	-18	-18
62	-33	-14	-3	19	32	35	44	36	29	25	18	-13	-30
63	-27	-5	3	22	31	43	48	48	41	15	11	-14	-27
64	-6	-2	-4	12	30	36	51	36	22	19	-4	-31	-31
65	-10	-15	-21	26	27	36	45	33	19	24	16	-9	-21
66	-16	-9	-2	-4	25	32	49	36	33	15	-8	-10	-16
67	-8	-2	-4	12	20	38	46	41	35	15	-3	-19	-19
68	-18	0	7	1	17	35	37	39	31	18	6	-28	-28
69	-9	3	-6	23	27	28	43	44	35	9	0	0	-9
70	-23	1	-2	5	27	34	45	47	27	12	0	-7	-23
71	-13	-16	-6	7	30	40	38	45	24	-3	0	-6	-16
72	-43	-17	1	5	26	39	30	43	21	2	-6	-27	-40
73	-24	-13	13	4	28	33	43	44	30	20	2	-11	-24
74	-28	0	-4	20	24	32	45	40	30	25	5	-1	-28
75	-16	-13	-2	-2	24	36	45	40	26	16	-14	-11	-16
76	-13	-14	-2	15	29	33	47	37	31	17	-8	-1	-14
77	-18	5	7	7	31	44	40	33	32	20	-14	-23	-23
78	-15	-13	-8	20	30	46	44	42	26	21	-5	-34	-34
79	-29	-22	11	15	27	42	45	46	30	15	-7	-11	-29
MEAN													
S. D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 7 JUL 64 0-00-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)

WHOLE DEGREES FAHRENHEIT

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

0-00-5 (OL A)

(AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

**YEARS**

JAN  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
44 / 43			.2					.1										3	3					
42 / 41			.1	.2	.5		.2											9	9					
40 / 39			.6	1.0	.5	.2												19	19	2				
38 / 37			1.1	1.3	.1													21	21	1				
36 / 35			.2	1.8	1.1	.5												30	30	15				
34 / 33			.2	1.5	1.3	.9												32	32	20				
32 / 31	.1	1.3	3.8	1.3	1.0													62	62	40				
30 / 29	.6	1.3	2.3	.2	.1													38	38	40				
28 / 27	1.2	2.6	1.6	.4														47	47	68				
26 / 25	.5	2.1	3.5	.9														57	57	66				
24 / 23	.1	2.2	1.9	.1														36	36	33				
22 / 21	.4	4.0	.6															41	41	69				
20 / 19	1.3	4.0	1.1															53	54	58				
18 / 17	.9	2.1	.9															31	31	39				
16 / 15	.4	5.0	1.0															52	52	34				
14 / 13	1.1	2.1																26	26	56				
12 / 11	.9	1.7	.1															22	22	26				
10 / 9	.9	1.5	.1															20	20	22				
8 / 7	.7	1.1	.2															17	17	19				
6 / 5	1.3	1.0																19	19	20				
4 / 3	1.7	1.5																26	26	28				
2 / 1	2.6	1.6																34	34	29				
0 / -1	2.4	.6																25	25	31				
-2 / -3	.7	1.1																15	15	18				
-4 / -5	.9	.5																11	11	10				
-6 / -7	.7	.2																8	8	9				
-8 / -9	.6	.4																8	8	7				
-10 / -11	1.7	.1																15	15	16				
-12 / -13	.5																	4	4	5				
-14 / -15	1.1																	9	9	9				
-16 / -17	1.3																	11	11	11				
-18 / -19	1.2																	10	10	10				
-20 / -21	.6																	5	5	5				
-22 / -23	.4																	3	3	3				
Element (X)	Σ X'		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-2/-25	.1																	1	1	1	8			
-2/-27	.2																	2	2	2	10			
-2/-29																					5			
-2/-31																					2			
-2/-33																					1			
-34/-35																					2			
TOTAL	27.1	38.3	22.5	7.9	3.5	.2	.2	.1										822	823	822	822			

**USAFETAC** **AC004** **0-26-5 (OL A)** **REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE**  
**AFS 64**

## PSYCHROMETRIC SUMMARY

**YEARS**

JAN  
MONTH

USCL-03  
HOURS (L, S, T)

[illegible]

AD-A118 506

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC(11)  
JUL 82

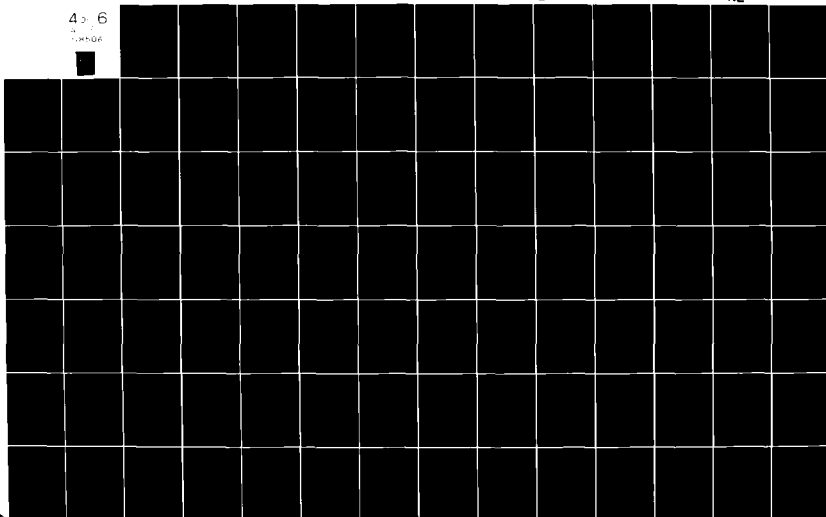
UNCLASSIFIED USAFETAC/DS-82/041

SBI-AD-E850 200

NL

4 of 6

FORM 8





## PSYCHROMETRIC SUMMARY

JAN  
MONTH

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
-2/-23	.5																	4	4	4	9											
-24/-25	.5																	4	4	4	10											
-26/-27	.1																	1	1	1	10											
-28/-29																					8											
-30/-31																					2											
-32/-33																					1											
-34/-35																					1											
TOTAL	27.8	38.6	22.6	7.3	3.2	.2	.4												824	826	824											
									</																							

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725692 NATRONA CO/CASPER WY

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0600-2800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL D.B./W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point										
44/ 43			.2				.1											3	3											
42/ 41		.1	.1		.2			.1										5	5											
40/ 39			.5	1.4	.4	.1	.1											20	20	3										
38/ 37			.9	.5	.4	.5												18	18	1	1									
36/ 35		.2	2.2	1.0	.6													33	33	5	2									
34/ 33		.4	2.2	.9	.5													32	32	27										
32/ 31		1.5	2.6	1.2	.9													50	50	33	8									
30/ 29		.5	2.5	1.7														38	38	48	5									
28/ 27	.1	2.3	2.5	.6														45	45	35	27									
26/ 25	1.2	2.8	3.2															55	55	69	40									
24/ 23	.2	2.5	1.0	.1														31	31	69	34									
22/ 21	.4	2.6	1.5															36	36	40	27									
20/ 19	.4	4.7	1.4															52	52	42	63									
18/ 17	1.4	5.4	1.8															70	70	59	42									
16/ 15	.7	2.1	.2															25	25	62	62									
14/ 13	1.6	3.4																41	41	35	60									
12/ 11	1.1	1.2	.5															23	23	37	54									
10/ 9	.9	.4	.1															11	11	16	64									
8/ 7	1.2	2.3	.1															28	29	18	37									
6/ 5	1.7	1.0																22	23	33	34									
4/ 3	1.4	1.6																24	24	23	26									
2/ 1	1.1	2.5																29	29	28	31									
/ -1	1.1	.5																13	13	17	16									
-2/ -3	.5	1.1																13	13	14	24									
-4/ -5	.7	.5																10	10	11	19									
-6/ -7	.7	.1																7	7	8	12									
-8/ -9	2.1	.2																19	19	19	13									
-10/ -11	2.2																	16	16	17	13									
-12/ -13	.9																	7	7	7	7									
-14/ -15	1.2																	10	10	10	15									
-16/ -17	.5																	4	4	4	17									
-18/ -19	.9																	7	7	7	13									
-20/ -21	.9																	7	7	7	12									
-22/ -23	.5																	4	4	4	5									
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																														
Dry Bulb																														
Wet Bulb																														
Dew Point																														
																							Mean No. of Hours with Temperature							
																							≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

HOURS 11. 3. 7.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-2/-25	.1																	1	1	1	11			
-2/-27																					9			
-2/-29	.2																	2	2	2	4			
-2/-31	.1																	1	1	1	2			
-3/-37																					3			
TOTAL	25.44	0.02	3.3	7.4	3.0	.6	.2	.1										812	814		812			



## PSYCHROMETRIC SUMMARY

725690	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)

[illegible]

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
50 / 57											.1	.1						2	2													
51 / 55									.2	.1								3	3													
54 / 53							.4				.1							4	4													
52 / 51							.4	.1										4	4													
5 / 49						.1	.2	.2										5	5													
42 / 47					.6	.9	.6	.4										20	20													
41 / 45			1.1	1.0	.6	.6	.4											30	30													
44 / 43			.6	1.4	1.0	.9												31	31													
42 / 41			.4	1.7	1.2	1.0	.2											37	37	7												
4 / 39			.4	2.1	1.7	1.0	.1											43	43	24												
31 / 37			2.5	2.1	1.8	.1												53	53	33												
7 / 35		.4	2.3	.9	1.5													41	41	38												
34 / 33		1.0	2.7	1.7	.4	.2												49	49	75												
22 / 31	.2	.7	5.1	1.7	1.7	.1												78	78	73												
70 / 29		.9	3.5	.9	.2													44	44	65												
21 / 27		1.0	3.0	.7														38	38	73												
26 / 25		.5	2.3	.6														28	28	53												
24 / 23		1.2	2.5	.2														32	32	49												
22 / 21		1.2	1.2	.1														21	21	38												
20 / 19		2.8	1.0															31	31	34												
11 / 17		2.6	.9															28	29	32												
11 / 15	.1	1.6	1.5															26	26	31												
11 / 13		2.2	.6															23	23	18												
11 / 11		2.6	.7															27	27	26												
10 / 9		1.4	.7															17	17	27												
1 / 7		1.2	.1															11	11	22												
1 / 5	.2	1.2																12	12	12												
1 / 3		2.0																16	16	10												
1 / 1		1.7																14	14	21												
1 / -1	.9	1.4																18	18	18												
1 / -3		1.2																10	10	11												
1 / -5	.1	1.0																9	9	11												
1 / -7	.1	.2																3	3	5												
1 / -9		.2																2	2	4												
Element (X)	Σ X'			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature																
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																																
Wet Bulb																																
Dew Point																																

## PSYCHROMETRIC SUMMARY

725691	NATRONA CO/CASPER dY
STATION	STATION NAME

73-81

YEARS

**JAN**  
**MONTH**

PAGE 2

1200-1400  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725690 NATRONA CO/CASPER WY

73-81

YEARS

JAN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
57 / 57											.2							2	2						
56 / 55									.2									2	2						
54 / 53							.2	.4										5	5						
52 / 51							.1		.1									2	2						
50 / 49					.1	.2	.4	.1	.1									8	8						
48 / 47						.4	.6	.6										13	13						
46 / 45				.4	.8	.8	.5	.4										24	24						
44 / 43			.2	.8	1.1	1.0	.5											30	30						
42 / 41			.6	1.2	1.5	.8	.6											39	39	3					
40 / 39			.6	2.3	1.5	1.0	.1											45	45	21					
38 / 37			1.8	1.9	.8	.6												43	43	29					
36 / 35		.1	2.2	1.8	1.3	.2												47	47	36 2					
34 / 33	.2	.6	2.7	1.9	1.0	.1												54	54	79 5					
32 / 31	.2	1.1	4.7	1.8	.5	.2												71	71	66 25					
30 / 29		1.0	2.8	1.2	.2													43	43	68 28					
28 / 27		1.9	2.8	1.6	.1													53	53	78 47					
26 / 25	.2	1.0	2.4	.2														32	32	64 49					
24 / 23		1.1	2.1															26	26	42 61					
22 / 21		1.7	1.1															23	23	48 48					
20 / 19		2.1	1.0															25	25	27 67					
18 / 17	.1	2.8	1.1															33	33	33 63					
16 / 15	.1	3.0	.6															31	31	24 39					
14 / 13	.1	2.1	1.0															26	26	35 62					
12 / 11	.2	2.1	.4															22	22	23 53					
10 / 9		2.1	.5															21	21	27 55					
8 / 7		1.2	.5															14	14	16 35					
6 / 5		1.1																9	9	16 12					
4 / 3	.2	1.6																15	15	12 21					
2 / 1	.1	2.5																22	22	18 33					
0 / -1	.4	1.0																11	11	19 14					
-2 / -3		1.6																13	13	14 10					
-4 / -5	.1	1.0																9	9	10 11					
-6 / -7	.6	.1																6	6	10 10					
-8 / -9	.6	.1																6	6	7 18					
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC



## PSYCHROMETRIC SUMMARY

72569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

JAN  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

[illegible]

725697	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 1800-2000  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
47 / 47							.1		.1									2	2													
46 / 45							.1		.1									2	2													
44 / 43					.2	.5												6	6													
42 / 41			.8	.7	.5	.2	.1											20	20													
40 / 39			.8	1.0	1.1	.2												26	26	1												
38 / 37		.2	1.6	1.3	.7	.4												35	35	12												
36 / 35		.4	1.8	2.0	.7	.1												42	42	23												
34 / 33	.2	.6	2.0	1.9	.6													45	45	38												
32 / 31	.1	1.0	3.6	1.2	1.1													58	58	45												
30 / 29	.7	1.4	3.4	2.2	.1													65	65	55												
28 / 27	.2	2.9	2.0	1.3	.1													55	55	70												
26 / 25	.1	2.4	2.4	.2														43	43	71												
24 / 23		1.9	2.6	.1														39	39	61												
22 / 21	.1	2.2	.8															26	26	58												
20 / 19	.7	4.5	1.4															55	55	38												
18 / 17	.7	3.1	1.2															42	42	50												
16 / 15	.6	1.9	.2															23	23	42												
14 / 13	1.1	1.2	.4															22	22	30												
12 / 11	.8	1.3	.1															19	19	17												
10 / 9	.6	2.0																22	22	26												
8 / 7	.6	2.6																27	27	25												
6 / 5	1.0	1.1																17	17	23												
4 / 3	.6	1.4																17	17	12												
2 / 1	.8	2.3																26	26	24												
0 / -1	1.0	.7																14	14	22												
-2 / -3	.5	1.1																13	13	14												
-4 / -5	.5	.7																10	10	9												
-6 / -7	1.1	.5																13	13	16												
-8 / -9	2.4	.1																21	21	23												
-10 / -11	1.1	.1																10	10	10												
-12 / -13	.5																	4	4	4												
-14 / -15	.7																	6	6	6												
-16 / -17	.5																	4	4	4												
-18 / -19	.1																	1	1	1												
Element (X)	Σ X²	Σ X	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature																										
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																				
Dry Bulb																																
Wet Bulb																																
Dew Point																																

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 2

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
-1/-21	.1																		1	1	1	7												
-2/-23																						6												
-24/-25																						2												
-1/-29																						1												
TOTAL	17.6	37.8	25.4	12.3	5.4	1.2	.1	.2											831	831		831												
								</																										

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

**0-26-5 (OL A)**

**PAGE**

**USAFETAC**

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725600 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81  
YEARS

JAN  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
4 / 45								.1										1		1				
4 / 43					.2			.1										3		3				
42 / 41			.6	.6	.6		.1											16		16				
4 / 39			1.1	.9	.7													22		22				
3 / 37			.7	1.3	.2													19		19	7			
7 / 35	.1	.4	1.5	1.8	1.1													40		40	19			
3 / 33	.1	.4	.9	1.6	.6													29		29	24			
12 / 31	1.0	1.3	3.9	1.2	.5													65		65	46			
7 / 29	.2	1.7	2.2	2.1														51		51	41			
2 / 27	.2	2.8	1.8	.4														43		43	66			
2 / 25	.9	2.6	2.2	.9														53		53	63			
2 / 23	.1	2.7	1.6															36		36	59			
2 / 21	.5	1.9	1.3	.1														32		32	52			
1 / 19	.7	6.0	1.8	.1														71		71	46			
1 / 17	.6	2.7	1.2															37		37	59			
1 / 15	1.2	2.9	.4															37		37	45			
14 / 13	1.6	1.5	.2															27		27	46			
1 / 11	.7	1.5																18		18	16			
1 / 9	.4	1.9	.1															20		20	21			
1 / 7	.2	1.8	.1															18		18	16			
1 / 5	.9	1.1	.1															17		17	22			
1 / 3	1.8	1.1																24		24	25			
1 / 1	1.9	1.1																24		24	25			
1 / -1	1.8	1.2																25		25	21			
-1 / -3	.5	1.5																16		16	23			
-1 / -5	1.2	.2																12		12	12			
-1 / -7	.5	.2																6		6	8			
-1 / -9	.9	.7																13		13	11			
-10 / -11	1.7																	14		14	16			
-17 / -13	1.0																	8		8	8			
-14 / -15	.9																	7		7	7			
-14 / -17	1.1																	8		8	8			
-14 / -19	.4																	3		3	3			
-10 / -21	.1																	1		1	1			
Element (X)	ΣX²		ΣX		X̄		σ²		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.											≤ 0 F	≤ 32 F	≈ 67 F	≈ 73 F	≈ 80 F	≈ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (O.L.A.)  
USAFETAC  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

MOUSE 11 5 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL			Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb						
27-23																					10				
27-25	.2																	2	2	2	2				
27-27	.4																	3	3	3	2				
27-31																					2				
27-33																					2				
27-35																					1				
TOTAL	27.5	39.1	21.8	11.0	4.0		.1	.2									821	821	821	821					

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569C NATRONA CO/CASPER WY

73-81

YEARS

JAN  
MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point					
57 / 57										.0	.0							4			4				
56 / 55									.0									5			5				
54 / 53								.1	.0	.0								9			9				
52 / 51								.1	.0	.0								6			6				
50 / 49					.0	.0	.1	.1	.0									15			15				
48 / 47					.1	.2	.2	.2										40			40				
46 / 45			.0	.2	.3	.3	.2	.1										67			67				
44 / 43			.1	.2	.5	.3	.2	.0										92			92				
42 / 41		.0	.4	.7	.8	.3	.2	.0										152			152				
40 / 39			.6	1.4	.8	.4	.0											217			217				
38 / 37		.0	1.5	1.4	.7	.3												253			254				
36 / 35	.0	.3	1.9	1.3	.9	.1												294			294				
34 / 33	.1	.7	1.9	1.6	.7	.0												328			328				
32 / 31	.2	1.2	3.7	1.4	.9	.0												487			487				
30 / 29	.3	1.1	2.8	1.4	.1													375			375				
28 / 27	.4	2.1	2.5	.8	.0													379			379				
26 / 25	.5	1.8	2.7	.5														359			359				
24 / 23	.1	2.0	1.9	.1														273			273				
22 / 21	.3	2.4	1.2	.0														256			256				
20 / 19	.6	3.8	1.3	.0														377			378				
18 / 17	.7	3.0	1.2															324			325				
16 / 15	.6	3.0	.6															273			273				
14 / 13	.9	2.1	.4															221			222				
12 / 11	.7	1.7	.3															178			178				
10 / 9	.5	1.6	.2															151			151				
8 / 7	.5	1.8	.2															162			163				
6 / 5	.9	1.0	.0															128			129				
4 / 3	1.1	1.5																165			165				
2 / 1	1.2	2.1																218			218				
0 / -1	1.3	.8																140			140				
-2 / -3	.4	1.2																101			101				
-4 / -5	.6	.6																83			83				
-6 / -7	.6	.3																61			61				
-8 / -9	1.1	.3																94			94				
Element (X)	$\Sigma x^2$		$\Sigma x$		$\bar{x}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature							Total							
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (Q.L.A.)

USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point				
-1/-11	1.1	.0																75	75	82	113			
-1/-13	.6	.0																42	42	44	67			
-1/-15	.7																	46	46	46	98			
-1/-17	.6																	40	40	40	100			
-1/-19	.4																	27	27	27	104			
-1/-21	.3																	20	20	20	51			
-2/-23	.2																	13	13	13	48			
-2/-25	.1																	8	8	8	34			
-2/-27	.1																	6	6	6	31			
-2/-29	.0																	2	2	2	20			
-2/-31	.0																	1	1	1	8			
-2/-33																					4			
-3/-35																					4			
-3/-37																					3			
TOTAL	17.6	36.4	25.7	11.0	5.7	1.9	1.0	.5	.1	.0	.0							6567	6573		6567			

Element (X)	Z <sub>X'</sub>	Z <sub>X</sub>	X	e <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Rel. Hum.	30747430	438932	66.8	14.652	6567							
Dry Bulb	4287344	135108	20.6	15.159	6573	85.9	576.1					744
Wet Bulb	3239033	116531	17.7	13.356	6567	95.8	667.9					744
Dew Point	1937440	69436	10.6	13.537	6567	154.8	739.1					744





## PSYCHROMETRIC SUMMARY

YEARS

FEB

**MONTH**

HOURS (L, S, T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725490  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

  FEB    
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																								TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
5 / 40							.3											2	2									
4 / 43					.4													3	3									
4 / 41			.4	.1	.1	.8	.3											13	13									
4 / 39			.3	1.5	.8	.1	.3											22	22									
3 / 37			1.3	1.1	.7	.1												24	24	7								
3 / 35		.3	.8	1.1	.4	.1												20	20	9								
3 / 33	.3	.7	.9	2.0	.8	.4												38	38	26								
2 / 31	.3	1.1	4.5	3.3	.5													73	73	34								
2 / 29	.5	2.1	4.7	2.1														71	71	41								
2 / 27	1.1	2.0	4.1	1.9														68	68	97								
2 / 25	.5	1.6	5.6	.4														61	61	90								
2 / 23	.1	2.5	2.3	.1														38	38	71								
2 / 21	.4	2.9	2.0	.1														41	41	70								
2 / 19	.8	3.2	.8															36	36	42								
1 / 17	.8	2.9	.8															34	34	40								
1 / 15	.9	3.2	.4															34	34	34								
1 / 13	1.1	2.7																28	28	39								
1 / 11	.8	2.0																21	21	26								
1 / 9	1.3	1.7																23	23	29								
1 / 7	.9	1.2	.1															17	17	16								
1 / 5	.9	.8																13	13	13								
1 / 3	1.2	.9																16	16	18								
1 / 1	.8	.3																8	8	11								
1 / -1	1.3	.3																12	12	12								
1 / -3	.3	.1																3	3	4								
1 / -5	.7	.3																7	7	5								
1 / -7	.5																	4	4	6								
1 / -9	.7	.3																7	7	5								
-10 / -11	.9																	7	7	9								
-1 / -13	.4																	3	3	3								
-14 / -15	.3																	2	2	2								
-16 / -17	.1																	1	1	1								
-18 / -19																				2								
-20 / -21																				8								
Element (X)	Σ X <sup>2</sup>	Σ X	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																					

## PSYCHROMETRIC SUMMARY

FEB

## PSYCHROMETRIC SUMMARY

**FEB**  
**MONTH**

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4 / 43					.7	.1												6	6					
2 / 41			.7	.4	.4	.7	.3											18	18					
40 / 39			.7	.7	.7	.3	.3											19	19					
3 / 37			.3	.4	.7	.1												11	11	9				
3 / 35		.7	.9	1.5	.5	.1												28	28	10				
3 / 33		.4	1.2	1.7	1.2	.1												35	36	18				
2 / 31	.4	1.1	4.6	2.4	.8	.3												71	71	34				
10 / 29	.1	3.1	4.8	2.3														77	77	37				
2 / 27	.9	2.1	5.5	1.3														74	75	90				
2 / 25	.7	.8	3.2	.3														37	37	88				
2 / 23		2.6	3.2	.1														44	44	71				
2 / 21	.1	3.1	2.1															40	40	53				
2 / 19	.8	4.6	1.7															53	53	62				
1 / 17	.7	2.1	.5															25	25	43				
1 / 15	.9	3.4																32	32	34				
1 / 13	1.7	3.5																39	39	37				
1 / 11	.1	2.6	.1															21	21	29				
1 / 9	.5	1.9	.1															19	19	30				
1 / 7	.8	1.5	.4															20	20	15				
1 / 5	.1	1.1																9	9	13				
1 / 3	1.2	.7																14	14	17				
2 / 1	.9	.8																13	13	13				
1 / -1	1.3	.1																11	11	12				
1 / -3																				1				
1 / -5	.1	.4																4	4	1				
1 / -7	.8																	6	6	9				
1 / -9	.8	.3																8	8	8				
1 / -11	.3	.3																4	4	4				
1 / -13	.1																	1	1	1				
1 / -15	.1																	1	1	1				
1 / -17	.1																	1	1	1				
1 / -19	.5																	4	4	4				
10 / -21																				2				
22 / -23																				1				
Element (X)	Σ X'			Σ X			Σ			Σ														

## PSYCHROMETRIC SUMMARY

725690	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

FEB

**MONTANA**

PAGE 2

0600-0800

0000-0000  
HOURS 11-5-7

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

725693 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81  
YEARS

FEB  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL																						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb		Wet Bulb		Dew Point																																			
57 / 57										.1								1		1													1	1																							
56 / 55										.3								2		2													2	2																							
54 / 53								.3										2		2													4	4																							
52 / 51							.1	.1	.1									4		4													4	4																							
50 / 49							.1	.4	.1									5		5													5	5																							
48 / 47						.1	.7	.3	.1									9		9														9	9																						
46 / 45						.4	.7	.4										11		11														11	11																						
44 / 43			.1	.3	.4	1.2	.1	.1										17		17														17	17	1																					
42 / 41			.9	.7	.9	1.2	.3	.1										31		31														31	31	2																					
40 / 39		.1	.5	1.7	1.3	1.3	.4											41		41														41	41	10																					
38 / 37		.1	1.3	2.2	2.3	.5	.4											49		49														49	49	23																					
36 / 35		.1	4.2	3.2	2.2	.4												75		75														75	75	25	2																				
34 / 33		.5	2.6	4.0	.8	.1												60		60														60	60	45	8																				
32 / 31	.1	1.2	3.0	3.9	.5													65		65														65	65	77	10																				
30 / 29	.9	.9	3.6	2.7														61		61														61	61	97	19																				
28 / 27		1.1	3.4	1.7														46		46														46	46	80	36																				
26 / 25	.1	2.2	3.6	.1														45		45														45	45	76	49																				
24 / 23	.1	1.7	1.7															27		27														27	27	69	40																				
22 / 21	.1	1.7	1.7															27		27														27	27	45	53																				
20 / 19	.1	2.6	.5															24		24														24	24	29	87																				
18 / 17		1.7	.3															15		16														15	16	24	78																				
16 / 15	.7	3.4	.1															31		31														31	31	23	70																				
14 / 13	.4	2.0																18		18														18	18	26	60																				
12 / 11	.3	2.0																17		17														17	17	17	64																				
10 / 9	.5	.9	.1															12		12														12	12	20	37																				
8 / 7		.5																4		4														4	4	9	39																				
6 / 5	.1	.9																8		8														8	8	4	20																				
4 / 3	.4	.4																6		6														6	6	8	10																				
2 / 1	.5	.4																7		8														7	8	7	15																				
0 / -1	.5	.4																7		7														7	7	8	3																				
-2 / -3	.3	.3																4		4														4	4	5	6																				
-4 / -5	.3	.3																4		4														4	4	3	7																				
-6 / -7	.1	.3																3		3														3	3	3	7																				
-8 / -9	.1																	1		1														1	1	3	3																				
Element (X)	Σ X <sup>2</sup>					Σ X					X					Σ X					No. Obs.					Mean No. of Hours with Temperature																															
Rel. Hum.																										≤ 0 F					≤ 32 F					≤ 67 F					≤ 73 F					≤ 80 F					≤ 93 F					Total	
Dry Bulb																																																									
Wet Bulb																																																									
Dew Point																																																									

## PSYCHROMETRIC SUMMARY

725697	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

FEB  
MONTH

PAGE 2 0900-1100

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
10/-11	.3	.1																	3	3	2	6										
1/-13	.1																		1	1	2	2										
1/-15	.1																		1	1	1	3										
1/-17																						4										
1/-19																						3										
2/-25																						2										
2/-27																						1										
TOTAL	6.5	2.6	1.2	7.8	2.0	6.9	6.5	2.4	.5	.3	.4								744	746	744	744										
														</																		





## PSYCHROMETRIC SUMMARY

73-81

FEB  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
NA 44  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

552

150  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

FEB  
MONTH

PAGE 2 1500-1700  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
-1 / -5		.1																1	1	1	5														
- / -9																					2														
- / -11																					7														
-1 / -13																					1														
-1 / -15																					1														
- / -21																					2														
-2 / -23																					1														
TOTAL	1.218	722	521	815	5	9.0	4.3	3.9	.9	1.5	.5	.1							750		747														
																			747		747														

Element (X)	Z <sub>X'</sub>	Z <sub>X</sub>	R	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2467024	41160	55.116	336	747	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	951887	25222	33.611	765	750	1.0	34.9					84
Wet Bulb	637578	27806	27.9	8.823	747	1.3	55.9					84
Dew Point	293297	13317	17.8	8.656	747	3.6	82.9					84

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725697 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

FEB

MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point						
47 / 53							.1	.1		.1								3	3							
47 / 51							.1		.1									2	2							
51 / 47								.1	.1									2	2							
47 / 47						.5	.1	.1										6	6							
47 / 45					.9	.3	.3											11	11							
47 / 43			.3	.1	.8	.8	.1	.1										17	17							
42 / 41				1.1	1.3	.7	.3											25	25	2						
40 / 37		.1	.4	1.7	1.2	.9	.3											35	35	3						
37 / 37			2.9	2.3	.8	.3												47	47	18						
37 / 35		.4	4.7	1.2	1.9	.5												65	65	27						
37 / 33		.7	3.7	2.9	1.1													63	63	63						
32 / 31		1.3	3.5	3.2														60	60	75						
30 / 29	.8	1.6	3.6	1.5	.3													58	58	71						
27 / 27	.8	2.5	4.9	1.5														73	74	83						
27 / 25		1.7	2.3	.1														31	31	89						
27 / 23		1.5	1.5															22	22	52						
22 / 21		3.1	1.9															37	37	38						
19 / 19	.4	3.7	1.2															40	40	33						
17 / 17	.8	1.9																20	20	49						
17 / 15	.7	2.9																27	27	26						
17 / 13	.4	1.9																17	17	23						
17 / 11	.3	2.9																17	17	14						
17 / 9	.1	1.3	.3															13	13	19						
17 / 7	.1	.8																7	7	11						
17 / 5	.1	.3																3	3	4						
17 / 3	.5	.3																6	6	6						
17 / 1	.7	1.3																15	15	11						
17 / -1	.4	.4																6	6	9						
17 / -3	.3	1.1																10	10	11						
17 / -5	.3	.5																6	6	6						
17 / -7	.3																	2	2	3						
17 / -9	.3																	2	2	2						
17 / -11	.1																	1	1	1						
17 / -13																					4					
Element (X)	Σ <sub>1</sub>		Σ <sub>2</sub>		Σ <sub>3</sub>		Σ <sub>4</sub>		Σ <sub>5</sub>		Σ <sub>6</sub>		Σ <sub>7</sub>		Σ <sub>8</sub>		Σ <sub>9</sub>		Σ <sub>10</sub>		Σ <sub>11</sub>		Σ <sub>12</sub>		Σ <sub>13</sub>	
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

775697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 2

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
-1 / -15																						3	
-1 / -17																						1	
-1 / -19																						2	
-1 / -21																						2	
TOTAL	7.3	31.4	31.1	5.6	8.3	4.0	1.3	.5	.3	.1									749	750		749	

## PSYCHROMETRIC SUMMARY

**YEARS**

**FEB**  
**MONTH**

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
5 / 47							.3											2	2						
4 / 47							.1											1	1						
44 / 43					.5	.5												8	8						
42 / 41			.3	1.1	1.5	.5												25	25						
4 / 39			.9	1.5	.9	.8	.3											33	33						
3 / 37			1.5	1.1	.5	.4	.1											27	27	9					
30 / 35		.8	3.3	1.9	.8	.4												54	54	20					
30 / 33	.4	1.6	2.3	3.3	1.2													66	66	48					
22 / 31		1.7	4.3	2.5	.3													66	66	65					
2 / 29	.7	.4	4.1	1.5														50	50	55					
2 / 27	.5	1.7	4.0	1.1														55	55	81					
1 / 25	.7	3.2	3.1	.7														57	57	86					
20 / 23	.5	2.9	1.1	.1														35	35	67					
2 / 21	.3	2.4	1.7															33	33	52					
2 / 19	.7	4.5	1.5															50	50	31					
1 / 17	.9	1.9	.4															24	24	53					
1 / 15	.8	2.7																21	21	29					
1 / 13	1.1	1.1																16	16	20					
1 / 11	.4	2.5																22	22	12					
1 / 9	.5	1.5																15	15	25					
1 / 7	.3	1.7																15	15	17					
1 / 5	.8	.7																11	11	16					
1 / 3	.5	.7																9	9	8					
1 / 1	.7	1.5																16	16	7					
1 / -1	.9	.5																11	11	18					
1 / -3	.3	.9																9	9	9					
1 / -5	.1	.1																2	2	4					
1 / -7	.5																	4	4	5					
1 / -9	.8																	6	6	6					
1 / -11	.3																	2	2	2					
1 / -13	.3																	2	2	2					
1 / -15	.1																	1	1	1					
1 / -17																									
1 / -19																									
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		σ <sub>x</sub>																		

## PSYCHROMETRIC SUMMARY

725693	NATRONA CO/CASPER WY
STATION	STATION NAME

**73-81**

YEARS

**FEB**  
**MONTH**

PAGE ? 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 1

ALL

**ALL**  
**HOURS (L.S.T.)**

[illegible]



## PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

**FEB**  
**MONTH**

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

MAR  
MONTH

PAGE 1 0000-0200  
HOURS (L S T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																										TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point									
4 / 47					.2													2	2											
4 / 45				.4	.5													11	11											
4 / 43				.2	1.1	.5	.2											17	17											
2 / 41			.2	1.3	.6	.1	.1											20	20											
4 / 39			1.3	1.9	.7	.2												35	35	8										
3 / 37		.1	2.8	1.0	.8	.5												43	43	7										
7 / 35		1.1	2.5	2.2	.6	.2												55	55	48	2									
3 / 33	.5	1.3	2.8	1.9	.5													58	58	56	5									
2 / 31	.2	4.7	4.5	2.2	.4													99	99	64	44									
7 / 29	2.8	4.7	2.5	1.0	.2													93	93	106	30									
2 / 27	.7	5.0	2.3	.4														69	69	106	103									
7 / 25	.2	4.1	1.0															44	44	98	60									
2 / 23	.4	3.3	1.1															39	39	57	56									
2 / 21	1.2	3.8	.4															44	44	53	71									
7 / 19	1.8	5.6	2.1															78	78	59	117									
1 / 17	.5	2.5	.6															30	30	48	57									
1 / 15	.4	1.7	.1															18	18	32	58									
1 / 13	.4	1.0																11	11	15	50									
1 / 11	.2	.5																6	6	14	41									
1 / 9	.4	.5																7	7	8	39									
- / 7	.5	.5																8	8	4	24									
- / 5	.8	.6																12	12	13	11									
- / 3	1.3																	11	11	14	12									
- / 1	.5	.2																6	6	6	16									
- / -1	.2																	2	2	2	15									
- / -3																					4									
- / -5	.6																	5	5	5	3									
- / -7	.1																	1	1	1	2									
- / -9																					1									
- / -11																					2									
- / -13																					1									
TOTAL	13.8	41.3	24.3	12.5	5.7	1.9	.5												824		824									
																		824		824										
Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$																											

0-26-5 (OLA) SERVED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81  
YEARS

MAR  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
50 / 55							.1											1	1	
4 / 53							.1											1	1	
5 / 49						.4	.1											4	4	
4 / 47					.4	.2	.1											6	6	
4 / 45				.4	.6	.1	.1											10	10	
4 / 43			.2	.5	.5	.1	.2											13	13	1
2 / 41		.1	.7	1.6	.9	.2	.1											30	30	3
4 / 39		.4	.6	2.1	1.5	.6												42	42	11
3 / 37		.4	1.9	1.7	.7	.4												42	42	24
7 / 35		1.1	2.3	2.8	.9	.4												61	61	30
3 / 33	.1	1.7	1.2	2.1	.5													46	46	58
2 / 31	.2	4.6	3.8	2.6	.5													96	96	67
7 / 29	2.6	5.5	3.3	.5	.1													98	98	105
2 / 27	.6	4.3	2.1	.5														61	61	117
20 / 25	1.2	5.1	2.7	.2														76	76	99
24 / 23	.5	2.3	1.1	.1														33	33	60
2 / 21	1.2	2.7	1.9															48	48	56
1 / 19	.7	3.9	1.1															47	47	47
1 / 17	.6	1.7	.5															23	23	37
16 / 15	.5	1.6	.1															18	18	28
14 / 13	.2	1.0																10	10	16
1 / 11	.1	.6																6	6	11
1 / 9	.4	.6																8	8	8
2 / 7	.4	.4																6	6	5
6 / 5	.5	.5																8	8	10
4 / 3	1.3	.2																13	13	13
1 / 1	.4	.2																5	5	6
1 / -1	.4																	3	3	3
-1 / -3	.5																	4	4	4
-2 / -5																				5
-1 / -7	.2																	2	2	2
-2 / -9																				
-1 / -11																				
-15 / -15																				
Element (X)	$\Sigma X^2$		$\Sigma X$		$\Sigma$		$C_s$		No. Obs.		Mean No. of Hours with Temperature						Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F				
Dry Bulb																				
Wet Bulb																				
Dew Point																				

## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAR  
MONTH

PAGE 2      0600-0800  
HOURS (L. S. T.)

[illegible]

USAFETAC  
FORM 0-26-5 (O.L.A.)  
REV. 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
67 / 67											.2							2	2					
66 / 65										.1								1	1					
65 / 63									.1	.1								2	2					
64 / 61									.1	.1								2	2					
63 / 59									.2									2	2					
62 / 57								.2	.1	.1								4	4					
61 / 55						.1	.5	.9										12	12					
60 / 53					.5	.6	.1	.4										13	13					
59 / 51				.2	1.1	1.0	.5											23	23					
58 / 49			.1	.4	1.2	.9	1.1	.1										31	31	1				
57 / 47			.2	1.0	1.5	1.6	.5											39	39	3				
56 / 45			.2	.6	2.8	1.1	.4											42	42	5				
55 / 43		.4	.9	2.6	1.3	.7												48	48	20				
54 / 41		.5	2.1	2.8	2.2	.4												65	65	28				
53 / 39		.7	1.8	2.1	1.3													49	49	36				
52 / 37	.1	.5	1.1	2.2	2.2	.5												54	54	3				
51 / 35		1.6	2.1	1.8	1.3	.1												57	57	8				
50 / 33		2.7	1.9	1.8	.4	.4												59	59	15				
49 / 31	.1	4.1	2.6	2.6	.5													81	81	47				
48 / 29	.4	2.3	2.6	.9	.2													52	52	68				
47 / 27	.1	3.8	2.1	.7	.4													58	58	77				
46 / 25		2.3	1.2	.2														31	31	65				
45 / 23		1.8	.6															20	20	74				
44 / 21	.1	1.7	.1															16	16	94				
43 / 19	.1	.7	.2															9	9	97				
42 / 17		.4	.4															6	6	76				
41 / 15		.7																6	6	53				
40 / 13		1.1																9	9	49				
39 / 11		.5																4	4	16				
38 / 9		.9																3	3	20				
37 / 7	.1	1.1																10	10	6				
36 / 5		.6																5	5	15				
35 / 3		.2																2	2	9				
34 / 1	.1	.2																3	3	18				
Element (X)	Σ x'																							

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
/ -1	.1																	1	1	2	3											
- / -3																					1											
- / -5																					4											
- / -7																					2											
- / -9																					1											
TOTAL	1.326	.816	.415	.614	.613	.0	6.7	3.7	1.1	.5	.2							821	821		821											
																		821		821												

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

MAR  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
/ 3																						10													
/ 1																						6													
/ -1																						9													
- / -3																						4													
- / -5																						1													
TAL	.6	15.5	11.6	11.7	14.9	12.6	12.4	9.3	7.7	2.2	1.1	.5							820	823		820													

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MON

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WEY BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
71												.1	.1					2	2					
69												.2						2	2					
67											.1	.2						3	3					
63									.1	.6	.5	.1						11	11					
61								.1	.6	.8								13	13					
59						.1	.1	.2	1.7	.5								22	22					
57							.4	.5	.5	1.0								19	19					
55							.2	1.3	1.4	.8	.1							33	33					
53						.4	1.3	1.3	1.8	.6								45	45					
51					.1	.5	1.8	2.3	1.0									47	47	2				
49				.6	.7	2.8	2.3	.4										56	56	3				
47			.1	1.0	2.8	3.9	1.0	.2										74	74	7				
45			.4	1.4	.7	1.4	.8											40	40	18				
43		.1	.6	1.3	1.9	2.0	1.1	.2										61	61	36				
41		.5	.6	2.5	1.9	.5												50	50	51				
39		.7	.6	1.6	3.6	1.6	.1	.4										71	71	80				
37		.6	.8	1.4	2.5	1.2	.1											56	56	119				
35		.5	1.3	.8	.6	.1	.1											29	29	101				
33		2.7	1.8	.4	.7													41	41	84				
31	.2	1.4	1.1	1.0	.5													35	35	106				
29	.5	.7	1.1	.6	.2													26	26	59				
27		1.1	1.2	.4														22	22	40				
25		.6	.7		.1													12	12	30				
23		1.6	.7															19	19	28				
21		.5	.2															6	6	22				
19		.2	.4															5	5	8				
17	.1	.4	.2															6	6	5				
15		.8																7	7	9				
13	.1	.4	.2															6	6	6				
11		.5																4	4	5				
9		.7																6	6	5				
7		.1																1	1	6				
5		.1																1	1	1				
3																								
Element (X)	ΣX'	ΣX	X	°A	No. Obs.	Mean No. of Hours with Temperature						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F									

## PSYCHROMETRIC SUMMARY

YEARS

MAR

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																	
2 / 61									.1	.2								3														3					
4 / 57								.2	.1	.1								4														4					
5 / 55							.4	.6	.1	.1								10														10					
4 / 53					.1	.4	.4	.2										9														9					
2 / 51				.1	.1	.4	.7	.2	.1									14														14					
5 / 49				.1	1.0	.6	.6	.1										20														20					
4 / 47			.4	1.3	1.1	1.3	.5											38														38					
4 / 45			.6	1.6	1.3	1.0	.1											38														38		3			
4 / 43			1.7	2.7	1.8	1.0												53														53		13			
2 / 41			2.0	1.5	2.2	.5												50														50		15			
4 / 39		.4	1.1	3.4	2.0	1.1	.5											69														69		35	1		
3 / 37		.5	3.2	2.7	1.3	1.1												72														72		56	3		
7 / 35		.9	2.0	3.0	2.2	.6												71														71		85	4		
3 / 33	.2	2.8	1.6	4.1	1.1	.1												82														82		100	12		
2 / 31	.4	4.4	3.7	2.1	.7	.1												88														88		107	49		
7 / 29		2.3	2.7	.6														46														46		106	71		
2 / 27	.4	1.3	.7	.2	.2													24														24		101	92		
7 / 25	.2	1.7	.5	.4	.1													18														18		56	73		
2 / 23		1.3	.7															17														17		23	60		
2 / 21		2.2	.6															23														23		24	66		
7 / 19		2.1	.2															19														19		32	87		
1 / 17	.1	.4	.2															6														6		11	87		
1 / 15	.2	.6																7														7		9	44		
1 / 13		1.6	.2															15														15		6	55		
1 / 11	.2	.5																6														6		15	29		
7 / 9		.5																4														4		6	21		
7 / 7	.2	.2																4														4		5	17		
7 / 5		.6																5														5		4	12		
7 / 3		.4																3														3		6	11		
7 / 1		.2																2														2		2	6		
7 / -1																																			10		
- / -3																																			9		
- / -5																																			1		
Element (X)	Σ X <sup>2</sup>			Σ X			Σ			Σ <sub>s</sub>			No. Obs.			Mean No. of Hours with Temperature																					
Rel. Hum.																≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total															
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

## PSYCHROMETRIC SUMMARY

PAGE 2      1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

MAR  
MONTH

PAGE 1

ALL

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
71												.0	.0					3	3					
69												.0	.1					7	7					
67												.0	.1					7	7					
65												.0						2	2					
63										.0	.0	.1	.1	.0				20	20					
61									.0	.0	.1	.2						22	22					
59						.0	.0	.1	.5	.1	.0							43	43					
57							.1	.2	.2	.3								52	53					
55						.0	.3	.5	.4	.2	.0							92	92					
53					.0	.2	.5	.5	.5	.1								118	118					
51					.1	.4	.7	.6	.3	.0								133	134	3				
49				.0	.2	.5	.8	.6	.1									157	157	9				
47				.1	.6	1.0	1.2	.4	.0									224	224	17				
45			.0	.5	1.1	1.0	.8	.2										236	236	42				
43		.0	.2	.9	1.7	1.1	.6	.0										297	297	112				
41		.0	.4	1.5	1.4	1.1	.2											305	306	153	1			
39		.2	.9	2.2	1.8	.9	.1	.0										409	409	277	4			
37	.0	.3	2.1	1.8	1.5	.6	.1											421	422	408	12			
35		1.2	2.1	2.0	1.2	.3	.1											443	443	535	52			
33	.1	2.3	2.0	2.1	.8	.1												493	493	625	92			
31	.3	4.1	3.1	2.0	.5	.0												662	662	705	333			
29	1.1	3.2	2.4	.7	.1													498	498	744	461			
27	.3	3.4	1.6	.5	.1													386	386	686	684			
25	.4	2.8	1.1	.2	.0													305	305	600	587			
23	.2	2.1	.7	.1														205	205	379	487			
21	.5	2.0	.8	.1														219	219	286	625			
19	.5	2.5	.7															241	243	247	817			
17	.2	1.3	.3															119	119	180	561			
15	.2	1.1	.0															85	85	129	432			
13	.2	.9	.1															73	73	83	376			
11	.2	.5																43	44	77	281			
9	.2	.6																53	53	55	202			
7	.3	.5																						

**USAFETAC**  
FORM  
NO. AA  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

72569                      NATRONA CO/CASPER WY  
STATION                      STATION NAME

73-81

MAR  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
1 / 3	.4	.2																42	42	52	73			
/ 1	.2	.2																25	25	27	98			
/ -1	.3																	20	20	22	73			
- / -3	.1	.0																7	7	7	39			
- / -5	.1																	5	5	5	2			
- / -7	.0																	3	3	3	9			
- / -9																					8			
- / -11																					3			
-1 / -13																					1			
-1 / -15																					2			
TOTAL	6.129	9.18	5.14	8.11	1.2	7.2	5.4	3.4	2.1	1.0	.2	.2	.0					6567	6574	6567				



## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
4 / 53			.1	.1	.1	.3		.1										6	6																
5 / 51			.3	.1	.8	.5	.5											17	17																
5 / 47		.1	.1	.6	.6	.3	.4											17	17	3															
6 / 47		.1	.3	1.4	1.1	.5	.8											33	33	3															
4 / 45			1.3	1.4	1.3	1.3	.1											42	42	5	6														
4 / 43		.9	1.4	2.3	1.3	.6												51	51	19	1														
4 / 41		2.2	1.9	3.1	1.1	.1												66	66	51															
4 / 37		.4	2.7	3.9	.9	.1												63	63	44	18														
3 / 37	.4	2.8	4.1	2.0	.4													76	76	66	40														
3 / 35	.5	4.5	1.9	1.3	.4													67	67	105	33														
3 / 33	1.7	4.7	2.0	1.3	.1													77	77	121	56														
2 / 31	1.1	6.0	2.0	1.0														80	80	84	101														
2 / 29	1.3	2.9	2.7	.6														54	54	77	96														
2 / 27	.8	5.3	1.7	.3														58	58	69	110														
2 / 25	.3	2.0	.6															23	23	58	67														
2 / 23	.4	.8	.5															13	13	28	49														
2 / 21	.5	1.4																15	15	19	53														
1 / 19	.4	1.1																12	12	11	69														
1 / 17	.1	.6																6	6	9	38														
1 / 15		.4																3	3	7	16														
1 / 13	.1																	1	1	1	17														
1 / 11																					9														
1 / 9		.1																1	1	1	1														
1 / 7		.1																1	1	1															
1 / 5	.1																	1	1	1	1														
1 / 3																					1														
1 / 1																					1														
1 / -1	.4																	3	3	3															
-1 / -3																					2														
-1 / -5																					1														
TOTAL	8.736	522.3	19.5	6.1	3.7	1.6	.1											786	786		786														

## PSYCHROMETRIC SUMMARY

**YEARS**

APR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

APR  
MONTH

0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

APR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
4 / 73											.1	.3	.1					4	4													
7 / 71											.1	.3	.1					4	4													
7 / 69											.1	.3	.1					10	10													
6 / 67									.1	.3	.5	.5	.6					16	16													
6 / 65									.4	.3	.5	.5						13	13													
4 / 63						.1	.1	.1	.8	.9	.4							19	19													
4 / 61						.3	.9	.8	.5	.4	.1							23	23													
7 / 59					.1	.6	.9	.3	1.8	.6								34	34													
7 / 57						1.0	1.1	1.1	.5	.4								33	33													
5 / 55					1.0	1.3	2.0	1.9	.9	.1								57	57													
4 / 53			.1	.4	1.8	1.1	.8	.4										36	36	4												
7 / 51			.4	.3	2.5	1.9	1.1											49	49	19												
5 / 49				1.3	1.1	1.6	1.4	.9										48	48	28												
4 / 47			.5	.4	2.0	2.1	1.4	.1										52	53	54												
4 / 45		.1	.5	1.5	1.9	.9	.6											44	44	49												
4 / 43		.3	.9	1.8	1.1	.9	.4											42	42	72												
2 / 41		.5	1.3	1.3	1.0	1.4	.1											44	45	81												
4 / 39		.9	1.5	1.3	1.8	.6												48	48	78												
3 / 37		1.9	1.3	.9	.8	.3												40	40	93												
7 / 35	.8	1.1	.8	.8	.6	.1												33	33	68												
3 / 33	1.5	2.3	1.0	.8														44	44	68												
2 / 31	.8	1.6	1.5	.3														33	33	57												
7 / 29	.6	2.3	.5	.1														28	28	45												
2 / 27		1.1	.4															12	12	39												
7 / 25		1.0	.1															9	9	11												
2 / 23		.3	.3															4	4	9												
2 / 21		.3	.3															4	4	4												
7 / 19		.3	.3															4	4	4												
1 / 17		.1																1	1	4												
1 / 15		.1																1	1	1												
1 / 13																				1												
1 / 11		.1																1	1	8												
1 / 9		.3																2	2	3												
7 / 7																				3												
Element (X)	Σ X																															

## PSYCHROMETRIC SUMMARY

725697      NATRONA CO/CASPER WY  
STATION      STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

APP

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
1 / 11																																			
/ 9																																			
/ 7																																			
TOTAL	2.7	9.0	7.7	7.6	6.2	8.5	10.3	13.4	9.1	9.9	6.2	4.8	3.4	1.4	.3	.3		789		789															

USAFETAC  
FORM  
NA 44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE





## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
1 / 11																						13	
1 / 9																						9	
/ 7																						5	
/ 5																						4	
TOTAL	3.4	8.9	6.2	6.6	8.5	6.6	8.5	11.5	8.9	9.5	9.3	4.3	4.6	2.4	.6	.3			789		789		

Elements (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1826042	32860	41.62	4.095	789	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2329455	41635	52.71	3.090	790		6.9	14.9	4.7	.2		90
Wet Bulb	1332534	31958	40.5	6.953	789		13.0					90
Dew Point	569498	20362	25.8	7.473	789		72.2					90

USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

725693  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
5 / 59					.1		.1		.1	.1								4	4												
5 / 57				.1		.1	.1	.3	.3									7	7												
5 / 55				.1	.3	.4	.6	.3	.1									14	14												
4 / 53			.1	.4	.6	.6	1.1	.4	.1									27	27	1											
2 / 51			.1	.5	.9	1.3	1.0											30	30	1											
5 / 49		.1		.9	1.4	1.6	1.0	.1										41	41	2											
4 / 47			.1	1.5	2.3	1.6	.6	.1										50	50	10											
4 / 45		.4	.9	1.3	2.7	1.9	.3											58	58	17											
4 / 43		1.5	.5	2.3	2.5	.9												61	61	41											
2 / 41		1.3	1.3	2.7	1.9	1.0	.1											65	65	65											
4 / 39		2.4	2.4	1.9	.5													57	57	71											
3 / 37	.1	1.9	2.5	1.3	.9													53	53	99											
3 / 35	1.0	2.2	2.3	1.5	.6	.1												61	61	103											
3 / 33	1.8	4.9	2.0	1.4	.3													82	82	77											
2 / 31	.6	3.8	2.2	1.0														60	60	94											
2 / 29	1.0	1.4	1.6	.6														37	37	60											
2 / 27	.9	1.3	.5	.1														22	22	51											
2 / 25	.5	2.0	.4															23	23	38											
2 / 23	.1	.9	.3															10	10	23											
2 / 21	.4	.9																10	10	16											
1 / 19	.1	.6																6	6	8											
1 / 17		.1																1	1	1											
1 / 15	.3	.1																3	3	4											
1 / 13		.1																1	1	1											
1 / 11		.1																1	1	2											
1 / 9																				3											
1 / 7		.1																1	1	1											
1 / 5																				1											
1 / 3																				1											
1 / 1	.1																	1	1	1											
1 / -1	.3																	2	2	2											
1 / -3																				1											
1 / -5																				1											
1 / -7																				1											
Element (X)	Σ x <sup>2</sup>			Σ x																											

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
JAN 64  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

APR  
MONTH

PAGE 1

ALL  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point						
79														.1	.1	.0	.0					5	5			
77														.1	.1	.0	.0					18	18			
75												.1	.2	.2	.1							29	29			
73											.1	.1	.2	.1								30	30			
71										.1	.2	.2	.4	.1								59	59			
69										.2	.4	.3	.2	.0								68	68			
67									.0	.2	.3	.4	.4	.0								91	92			
65								.0	.1	.2	.3	.5	.4									96	96			
63						.0	.0	.2	.2	.6	.5	.1										106	106			
61						.0	.4	.3	.4	.7	.3											143	144			
59					.0	.2	.3	.3	1.0	.5	.1											160	160			
57				.0	.0	.3	.4	1.1	.6	.4												186	186			
55			.0	.1	.3	.7	.7	1.2	.6	.2												239	239	1		
53			.0	.1	.4	.7	1.0	.8	.4	.1												222	222	33		
51			.1	.3	.4	.9	1.0	.5	.2													220	220	97		
49		.1	.0	.7	1.0	.9	.8	.4	.1													255	255	167		
47		.0	.4	.8	1.5	1.0	.8	.2	.0													303	304	245	8	
45		.1	.7	1.2	1.4	1.1	.4	.2														320	320	288	18	
43		.7	.9	1.6	1.4	.9	.3	.0														368	368	463	19	
41		.9	1.2	1.8	1.1	.6	.1	.0														361	362	536	59	
39	.0	1.6	1.7	1.6	1.1	.3																396	396	525	195	
37	.2	1.5	2.6	1.3	.6	.1																408	408	582	265	
35	1.1	2.5	1.9	1.1	.4	.1																440	440	644	346	
33	1.3	3.2	1.5	.9	.2																	450	450	664	436	
31	1.1	3.6	1.7	.8	.0																	448	448	584	740	
29	.9	2.1	1.1	.3																		284	284	455	701	
27	.5	2.2	.7	.1																		220	220	378	727	
25	.2	1.4	.3																			124	124	258	594	
23	.1	.8	.3																			76	76	144	402	
21	.3	.7	.1																			63	63	96	464	
19	.1	.7	.0																			55	55	54	549	
17	.0	.2	.0																			18	18	35	304	
15	.1	.2																				16	17	21	208	
13	.0	.1																				9	9	13	123	
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature												Total	
Rel. Hum.													≤ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-26-5 (OL A) REVERSED MIRROR IMAGES OF THE FORM ARE OBSOLETE  
USAFETAC





## PSYCHROMETRIC SUMMARY

73-81

MAY  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

725697 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 1 0300-0500  
HOURS (L, S, T, I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point																
4 / 63							.1											1														1	1			
4 / 61						.1												1														1	1			
5 / 59							.1											1														1	1			
5 / 57					.1		.1	.1										3														3	3			
5 / 55			.1	.1	.5	1.1	.4	.1										19														19	19			
4 / 53			.4	.4	.5	.5	.1											15														15	15			
5 / 51		.5	.5	.5	.6	.9	.1											25														25	25	4		
5 / 49		1.1	.4	.9	1.2	.4	.1	.1										34														34	34	9		
4 / 47	.1	2.0	1.8	.9	.7	.4	.1											49														49	49	28	13	
4 / 45	.5	2.4	4.0	2.0	.5	.2												79														79	80	44	19	
4 / 43	.9	6.1	2.4	1.5	1.0			.1										98														98	98	75	35	
5 / 41	.9	5.6	2.7	1.5	.5		.2											93														93	93	117	50	
4 / 39		3.5	3.7	1.5	.2													68														68	68	87	80	
3 / 37	.7	3.2	2.3	1.7	.2													67														67	67	80	85	
3 / 35	.6	4.6	1.3	.5														58														58	58	77	74	
3 / 33	.6	7.7	2.1	.7														91														91	91	92	85	
2 / 31	1.5	7.0	1.7	.2														85														85	85	87	110	
2 / 29	1.3	1.0	.6															21														21	21	83	75	
2 / 27	.1	.7																7														7	7	22	79	
2 / 25		.4																3														3	3	10	50	
2 / 23		.2																2														2	2	5	25	
2 / 21																																			19	
2 / 19																																			13	
2 / 17																																			5	
2 / 15																																			3	
TOTAL	6.8	46.0	23.4	12.2	6.1	3.5	1.5	.5										820														821		820		

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
FORM  
U.S. G.A.

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
79												.1		.2				3	3												
77											.4	.1	.1					5	5												
75										.2		.7	.5					12	12												
74									.1	.5	1.1	1.1	.6					28	28												
71								.2	.5	.7	.4	.1						16	16												
69						.1	1.0		.9	1.6	2.1	.1	.2					49	49												
67					.1	1.0	.7	1.1	1.1	.4	.1							37	37												
65					.1	1.0	.9	1.2	.2	.2								30	30												
63				.5	1.1	1.3	1.1	1.0	.6	.4								49	49												
61			.1	1.1	.6	1.2	1.6	1.3	.5	.1								54	54												
59			.6	1.0	1.3	2.6	1.7	.9										66	66	2											
57		.1	.5	1.3	1.3	2.0	1.2	.6	.2									60	60	9											
55		.5	.5	1.5	2.4	1.2	1.3	.2										63	63	38											
53		.2	.2	.9	1.1	1.1	1.3	.6										45	45	82											
51		.4	.9	1.6	1.8	1.0	.2	.1										49	49	76 4											
49		.7	.5	1.7	1.3	.7	1.1	.5	.1									49	49	96 19											
47		.1	1.0	.7	2.2	1.0	.4	.1										45	45	85 39											
45		.5	.5	.4	.7	.5	.2											23	23	86 33											
43	.4	1.5	1.2	1.2	.5	.4	.1											43	43	87 41											
41		1.3	.9	.1	.2													21	21	70 52											
39		1.1	.5	.1	.1													15	15	60 79											
37		.1	.2	.1														4	4	48 81											
35		.7	.1															7	7	14 99											
33	.9	2.6																28	28	38 65											
31	.2	1.8	.1															18	18	15 115											
29	.1																	1	1	14 56											
27																				39											
25																				32											
23																				23											
21																				17											
19																				18											
17																				4											
15																				2											
11																				1											
Element (X)	Σ X'				Σ X																										

## PSYCHROMETRIC SUMMARY

**YEARS**

MAY  
MONTH

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
TAL	1.6	11.1	5.9	7.1	3.2	12.6	14.5	11.0	7.8	5.5	5.4	2.7	1.6	.2					820	820	820				
																			820	820	820				

## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAY  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

**MAY**  
**MONTH**

PAGE 2 1200-1400

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL																
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point																			
67/85																.1	.1				2	2																	
47/83																.1	.9	.1			9	9																	
27/81														.4	.4	.4					9	9																	
77/79													.1	.4	1.6	.1					18	18																	
77/77													.7	.2	2.2	.2					28	28																	
67/75										.1	.2	1.0	1.1	1.2	.2	.4					35	35																	
47/73										.1	.1	.6	2.2	2.1	1.1	.1					52	52																	
27/71										.1	.4	.4	1.6	.1	1.0	.1					30	30																	
77/69										.6	.5	.6	1.3	2.3	2.3	1.1					72	72																	
67/67							.4	.6	.4	.9	1.9	.4	.7								43	43																	
67/65					.2	.4	.4	1.2	1.3	.5	.6	.7									44	44																	
47/63					.1	.5	.4	1.1	1.2	.6	1.1	.1									42	42																	
27/61				.2	.5	.4	1.7	1.7	1.8	1.2	.1										63	63	1																
77/59			.1	.9	.1	.9	1.7	1.6	1.1	1.5											64	64	4																
57/57				.4	.7	1.2	2.2	.9	1.1	.5											57	57	28																
57/55			.4	.5	.6	.7	1.1	.9	.5	.4											41	41	53																
47/53			.4	1.2	.4	.5	1.2	1.0	.5	.1											43	43	82	3															
27/51		.5	.7	.4	.6	.9	.7	.5	.1	.1											37	37	106	10															
57/49		.5	1.0	.5	.7	.2	.2		.1												27	27	116	18															
47/47	.2	.5	.5	.5	.5	.5															22	22	108	24															
47/45		.1	.1	.5	.7																12	12	86	29															
47/43		.2		.1																	3	3	65	31															
27/41	.2	.9	.9	.4																	19	19	55	41															
47/39		.7	.4																		9	10	40	65															
37/37	.1	.9	.6																		13	13	30	64															
77/35	.1	.7	.2																		9	9	23	77															
37/33		1.1	.1																		10	11	8	83															
27/31	.4	.4																			6	6	12	91															
77/29	.1	.2																			3	3	3	65															
27/27																							2	56															
77/25																								43															
27/23																								30															
27/21																								37															
77/19																								25															
Element (X)	$\Sigma X^2$					$\Sigma X$					$\bar{X}$					$\sigma_x$					No. Obs.					Mean No. of Hours with Temperature													
Rel. Hum.																										± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F		Total	
Dry Bulb																																							
Wet Bulb																																							
Dew Point																																							

FORM 54-100 (10-6-5) (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC



## PSYCHROMETRIC SUMMARY

725693  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 2

1500-1700  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

**YEARS**

MAY  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
74 / 73									.1									1	1						
73 / 71									.1									1	1						
72 / 69									.1		.1							2	2						
6 / 67									.1		.1							2	2						
6 / 65									.2	.2		.1						5	5						
64 / 63							.1	.5		.4								8	8						
62 / 61					.1	.4	.1	.2	1.1	.2								18	18						
61 / 59					.6	.7	.9	.5	.6	.4								30	30						
60 / 57		.1		.1	1.2	.9	1.1	.9		.1								36	36	3					
59 / 55		.1	.5	1.7	1.3	2.3	1.2	.7										65	65	1					
54 / 52		.5	1.0	.6	1.3	1.6	.7	.5										51	51	7					
52 / 51		.9	1.8	1.2	1.9	1.1	.7	.2										65	65	31					
51 / 49	.4	1.9	1.0	2.1	1.1	.4	.2											58	58	61					
49 / 47		1.9	3.3	1.8	1.8	.2												75	75	70					
48 / 45	.2	3.0	3.3	1.6	1.1	.6	.1											82	82	105					
44 / 43		3.5	3.4	2.2	1.1	.9												91	91	107					
42 / 41	.2	2.3	1.1	1.7	.7	.2												52	52	105					
41 / 39		.9	3.0	1.1	.9	.1												49	49	79					
39 / 37	.1	1.2	3.2	.2	.4													42	42	55					
37 / 35	.1	2.3	.9	.4														30	30	68					
36 / 33	.1	3.0	.2	.1														29	29	67					
32 / 31	1.2	1.5																22	22	40					
31 / 29		.7																6	6	16					
29 / 27		.1																1	1	6					
27 / 25																									
25 / 23																									
23 / 21																									
21 / 19																									
19 / 17																									
17 / 15																									
15 / 13																									
TOTAL	2.4	24.1	22.7	14.9	13.6	9.5	5.6	3.5	2.6	1.0	.1							821	821	821					
																		821	821						

Element (X)	$\Sigma x^1$	$\Sigma x$	$\Sigma$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					
Rel. Hum.						≤ 6 F	≤				

## PSYCHROMETRIC SUMMARY

YEARS

MAY

**MONTH**

PAGE 1

ALL

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725690	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

**JUN**  
**MONTH**

PAGE 1      0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
71								.3	.1	.1	.1							5	5													
69						.1	.1	.4	.6	.1								13	13													
67						.3	.3	1.0	.1	.1	.1			.3				15	16													
65				.3	.3	.3	.5	1.0	.1									19	19													
63					.4	1.1	1.3	.6	.5									31	31													
61		.1	.6	.6	1.5	.5	.1	.4	.4	.4								37	37													
59			.8	1.5	1.3	.9	1.6	.8	.6									59	59	5												
57		.4	1.5	1.8	2.5	1.6	1.7	.6	.4									78	78	13	2											
55		.9	3.7	2.8	1.6	1.9	.6											91	91	38	6											
53	.1	.8	1.9	3.5	1.8	1.1	.5											77	77	76	16											
51	.1	1.4	2.1	2.0	1.9	.6	.5	.1										70	70	81	30											
49	.1	1.8	1.8	2.7	1.1	.9	.4	.1										70	70	97	57											
47		1.4	2.8	2.5	1.4	.3												66	66	101	68											
45	.3	1.4	2.0	2.1	.5	.3	.1											53	53	84	66											
43	.1	1.5	1.5	.9	.4													35	35	96	72											
41		1.8	1.9	.1	.1													31	31	73	77											
39		1.8	.5	.3														20	20	57	74											
37	.3	.5	.6															11	11	40	86											
35	.1	.4	.1															5	5	16	87											
33	.3	.4																5	5	11	51											
31		.1																1	1	3	35											
29																				1	18											
27																					18											
25																					12											
23																					9											
21																					4											
19																					4											
TOTAL	1.4	14.5	21.8	21.1	14.8	9.8	7.1	5.3	2.9	.8	.3			.3				792	793		792											

## PSYCHROMETRIC SUMMARY

YEARS

**JUL**  
**MONTH**

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

JUN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
1 / 81														.3				2		2				
1 / 79										.1	.1	.1						3		3				
7 / 77										.1	.3	.3	.4	.1				9		9				
6 / 75										.5	.3	.5						10		10				
4 / 73								.3	.5	.5	.3	.1	.1					14		14				
1 / 71						.5	1.3	.4	.5	.3			.1					24		24				
1 / 69					.3	.5	.6	.8	.4	.3								22		22				
6 / 67				.4	.4	.4	1.5	1.5	1.1	.4	.1							46		46				
6 / 65					1.1	1.4	1.4	1.3	.4	.4	.1							48		48				
4 / 63		.1	.3	.3	1.1	1.4	1.3	1.0	.4	.1		.1						48		48				
2 / 61		.1	.4	.5	1.9	1.1	1.3	.6	.3	.5								53		53	11			
1 / 59		.1	.6	1.9	2.8	2.6	1.4	.4	.1	.1								80		80	18			
1 / 57		.4	1.0	2.0	2.1	3.3	.5	.9										81		81	45			
5 / 55	.1	.6	2.3	3.1	1.9	2.0	.6	.1										86		86	75			
4 / 53		.8	1.3	2.0	1.6	.9	.4											55		55	103			
2 / 51		.6	1.0	1.1	1.1	.6	.3											38		38	111			
5 / 49	.4	1.1	2.3	1.6	1.3	.3												55		55	101			
1 / 47	.1	.9	1.9	1.7	.9	.1												39		39	97			
4 / 45		1.0	1.5	.6	.8	.1												32		32	71			
4 / 43		.6	.9	.4	.1													16		16	61			
2 / 41		.8	.5	.3	.1													13		13	40			
4 / 39	.1	1.0	.4	.1														13		13	31			
3 / 37		.3	.1															3		3	19			
1 / 35		.5																4		4	6			
3 / 33																					5			
2 / 31																								
1 / 29																								
1 / 27																								
1 / 25																								
1 / 23																								
2 / 21																								
10 / 19																								
1 / 15																								
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-21

YEARS

JUN  
MONTH

PAGE 2

0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
 1964

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	De-														
91																	.5	4	4																
89																.1	.3	5	5																
87															.1	.5	.3	8	8																
85													.5	.8	.6	.4		18	18																
83											.1	.3	1.1	.9	.5	.4		26	26																
81										.3	.5	.8	1.0	.8	.1			27	27																
79									.3	1.0	1.4	1.3	1.8	.4				48	48																
77							.1	.1	.4	1.5	1.1	.9	1.1	.5				46	46																
75							.1	.6	1.5	1.6	1.8	1.3	.8					61	61																
73								1.4	1.6	2.0	2.4	.3	.5	.1				66	66																
71						.5	.9	1.0	2.5	1.8	1.1	.8						68	68																
69					.3	.5	1.8	2.0	1.4	1.3	.6	.1		.1				64	64																
67					.4	.4	1.4	1.6	1.3	.9	.6	.1	.3					55	55																
65			.1	.3	1.4	1.5	1.4	1.0	.5	.1	.1							51	51																
63			.1	.1	.8	.6	1.9	1.9	1.0	.8								57	57	12															
61			.3		.9	.8	1.5	.8	.6	.1	.1							40	40	45															
59				.3	.6	.9	1.6	.5	.4									34	34	96															
57				.1	.4	.8	1.0	.8	.5	.1								29	29	112	4														
55			.3	.4	.3	1.3	.6	.6	.3									29	29	125	18														
53		.1	.3		.3	.8	.4		.1									15	15	105	13														
51		.3	.4	.1	.8	.3	.1											15	15	73	33														
49		.1		.1	.6	.1	.1											9	9	79	63														
47		.1	.4	.1	.4													8	8	47	53														
45				.1	.1													2	2	30	82														
43		.1																1	1	34	72														
41		.1																1	1	17	70														
39			.1															1	1	9	78														
37			.3															2	2	2	87														
35	.1	.1																2	2	4	54														
33	.3																	2	2	2	48														
31																					46														
29																					26														
27																					21														
25																																			

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

YEARS

JUN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
6 / 95																	.1	1	1								
4 / 93																	1.1	9	9								
7 / 91																.1	1.5	13	13								
7 / 89															.5	1.5	1.8	30	30								
8 / 87												.1	.1	1.0	2.6	2.0	1.0	55	55								
6 / 85												.3	1.3	2.0	2.3	2.0	.4	65	65								
4 / 83												.3	2.3	1.1	2.5	2.5	.6	.4	77	77							
7 / 81												1.3	1.6	1.6	1.8	.9	.5	61	61								
7 / 79								.1	.5	.5	1.0	1.0	1.9	.3	.3			44	44								
7 / 77								.1	.4	1.0	.8	1.8	1.5	1.3	.3			56	56								
6 / 75							.1		.5	1.1	1.4	2.3	1.6	.1				57	57								
4 / 73								1.0	1.0	.9	2.0	1.3	.8	.1	.1			57	57								
7 / 71						.1	.3	.9	.8	1.5	1.6	.8	.1					48	48								
7 / 69							.3	.5	.3	1.3	1.8	.1			.1			34	34								
6 / 67					.1		.1	.4	.6	1.4	.8	.4	.1					31	31								
6 / 65					.1		.3	.5	1.3	1.3	.3	.1						30	30	2							
4 / 63			.1		.1	.4	.6	.4	1.3	.3								25	25	15							
7 / 61				.1	.1	.1	.4	.8	.6	.5								21	21	71							
7 / 59		.1	.1	.3	.1	.3	.4	.4	.4	.5	.1							21	21	110	2						
7 / 57			.3	.1		.1	.6	.1	.1	.3								13	13	144							
5 / 55			.3	.3		.4	.9		.1		.1							15	15	101	6						
4 / 53		.1	.3		.3	.4	.1											9	9	103	7						
7 / 51			.1		.1	.1												3	3	82	19						
5 / 49		.1	.5	.1														6	6	67	31						
7 / 47		.3	.1	.1														4	4	27	47						
4 / 45		.3																2	2	35	46						
4 / 43																				18	56						
2 / 41		.1																1	1	10	40						
4 / 39	.1																	1	1	4	79						
3 / 37		.5																4	4	2	73						
3 / 35																				2	97						
3 / 33																					85						
2 / 31																					74						
7 / 29																					36						
Element (X)	Σ X'		Σ X		X		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature							Total									
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F											
Dry Bulb																											
Wet Bulb																											
Dew Point																											

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

JUN

MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725693	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

JUN

PAGE 2 1500-1700  
MOUSE (1, 5, 7)

[illegible]





## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

JUN  
MONTH

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
79											.1							1	1					
77												.1	.1	.1				3	3					
75										.1	.3	.3		.1				6	6					
73							.1	.3	.6	.6	.4	.1	.1					18	18					
71							.4	.3	1.0	1.4	.1	.3	.3					29	29					
69							.6	1.8	.8	1.0	.5		.4					40	40					
67				.4	.3	.5	1.9	1.1	1.5	.5	.4	.3						54	54					
65			.3	.4	1.1	1.3	1.5	2.1	1.5	.1	.5	.3						72	72					
63			.3	.3	1.0	2.1	1.3	1.9	.9	.6	.1							67	67					
61			.1	1.3	1.1	3.2	1.9	1.0	.6	.5	.1							78	78	9				
59			.5	1.6	1.8	1.9	1.3	.9	.1									64	64	17				
57			.9	1.6	2.6	1.5	1.9	.4	.3									73	73	40				
55		.3	1.0	1.1	1.8	2.0	.6	.4	.4									60	61	72				
53		.5	.5	1.1	1.8	1.1	.3	.3	.1									45	45	107				
51		.6	.5	.8	1.8	1.1	.1	.1										40	40	111				
49		.9	.4	2.1	1.3	.3	.3											41	41	103				
47		.5	1.6	1.1	.9	.4												36	36	82				
45		1.1	.9	.6	.3	.1												24	24	75				
43		1.1	1.1	.6														23	23	73				
41		.6	.1	.3	.3													10	10	53				
39	.1	.5			.1													6	6	35				
37																				7				
35		.4																3	3	4				
33																				4				
31																				1				
29																								
27																								
25																								
23																								
21																								
19																								
17																								
TOTAL	.1	6.6	8.2	13.4	16.0	15.5	12.1	10.5	7.8	4.9	2.5	1.3	.9	.3				793	794	793				
Element (X)	ΣX'		ΣX		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature						Total</							

## PSYCHROMETRIC SUMMARY

72569

NATRONA CO/CASPER WY

73-81

YEARS

JUN

PAGE 1

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
6 / 95																	.1	4	4												
4 / 93																	.4	25	25												
1 / 91																.0	.0	.6	42	42											
1 / 89															.1	.4	.6	72	72												
8 / 87												.0		.1	.2	.7	.7	.5	138	138											
6 / 85												.0	.4	.6	.9	.7	.3	183	183												
4 / 83											.1	.4	.3	.9	.8	.4	.2	200	200												
1 / 81										.1	.5	.4	.7	.6	.4	.1	.0	180	180												
1 / 79								.0	.0	.3	.5	.6	.5	.8	.1	.0		189	189												
7 / 77							.0	.1	.2	.5	.6	.7	.9	.5	.1	.0		225	225												
6 / 75							.1	.2	.4	.6	.8	1.2	.6	.1	.0			251	251												
4 / 73				.0		.1	.5	.7	1.0	1.1	.5	.4	.1	.0				266	266												
2 / 71						.1	.3	.7	.9	1.0	.6	.5	.1					271	271												
1 / 69					.1	.1	.6	.9	.7	.9	.7	.1	.1	.0	.0			258	258												
6 / 67				.1	.2	.4	.8	1.0	.8	.7	.3	.2	.0					299	300												
6 / 65			.0	.1	.4	.7	.8	1.2	.8	.6	.2	.1						312	312	5											
4 / 63		.0	.1	.1	.5	1.0	.9	1.0	.7	.4	.1	.0						308	308	51											
2 / 61		.0	.2	.4	.9	.9	.9	.6	.5	.3	.0							300	300	209											
1 / 59		.1	.3	.7	1.0	1.1	1.1	.6	.3	.1	.0							331	331	411	8										
1 / 57		.1	.5	.9	1.2	1.2	.9	.5	.3	.1								358	358	629	26										
5 / 55	.3	.3	1.3	1.3	.9	1.4	.6	.2	.1	.0								390	391	662	59										
4 / 53	.7	.5	1.1	1.0	1.1	.8	.3	.1	.0									303	303	765	101										
2 / 51	.1	.7	.9	.9	.9	.5	.2	.0										266	266	695	213										
5 / 49	.1	1.0	1.1	1.2	.6	.3	.2	.0										278	278	670	393										
4 / 47	.7	.7	1.4	.9	.6	.1	.0											239	239	541	436										
4 / 45	.0	.9	1.4	.7	.4	.1	.0											220	220	478	536										
4 / 43	.0	.9	.9	.4	.1	.0												146	146	427	504										
4 / 41		.9	.6	.1	.1													109	109	310	529										
4 / 39	.1	.8	.3	.1	.0													76	76	225	650										
3 / 37	.1	.4	.2	.0														50	50	143	699										
3 / 35	.1	.4	.7	.0														35	35	61	582										
3 / 33	.1	.1																													

## PSYCHROMETRIC SUMMARY

YEARS.

JUN  
MONTH

PAGE 2

**All**

ALL  
HOURS (A. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

**JUL**  
**MONTH**

PAGE 1      0300-0500  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

73-81

YEARS

444

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B.-W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point			
6 / 85														.1	.1			2	2				
4 / 83													.2	.1				3	3				
1 / 81												.1	.2	.2				5	5				
1 / 79											.4	.4	.2	.1				9	9				
7 / 77									.7	.9	.5	.4						20	20				
6 / 75						.1		.4	.5	1.2	.6	.1	.1	.1				26	27				
4 / 73							.7	.5	1.1	1.1	.2	.1	.1					32	32				
1 / 71						.7	1.1	2.0	2.2	1.2	.5	.1						64	64				
1 / 69					.4	1.1	2.6	1.6	1.5	.5	.2	.1						65	65				
6 / 67			.1	.4	1.5	1.9	3.8	1.5	.6	.7	.1							86	86				
6 / 65		.1	.2	1.3	2.2	2.3	1.7	.6	1.0									78	78	1			
4 / 63		.2	.9	1.2	1.8	2.3	1.0	.7	.5	.2								73	73	4			
2 / 61	.1	.5	1.6	2.9	2.7	.6	1.1	.4	.1									82	82	33			
1 / 59	.1	1.5	1.8	3.2	2.8	1.2	1.1		.1									97	97	101			
5 / 57	.2	1.3	2.1	1.7	2.0	.6	.4	.2										70	70	146			
5 / 55		1.0	3.2	1.3	.4	.4												51	51	164			
4 / 53	.1	1.3	1.7	.7	.1		.1	.1										29	29	150			
2 / 51		1.0	.5	.1	.1	.1												15	15	87			
5 / 49		.4		.2		.1												6	6	83			
4 / 47		.1	.1															2	2	28			
4 / 45	.1		.1															2	2	9			
4 / 43																				7			
2 / 41																				3			
4 / 39																				1			
3 / 37																							
2 / 35																							
3 / 33																							
2 / 31																							
1 / 29																							
2 / 27																							
3 / 25																							
2 / 23																							
TOTAL	.7	7.5	11.6	13.2	14.0	11.5	13.6	8.0	7.6	5.8	2.9	1.5	1.3	.7	.1			817	818	817			
Element (X)	Σ x <sup>1</sup>		Σ x		Σ		Σ x		No. Obs.														



AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NI

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
USAFETAC/DS-82/041 SBI-AD-E850 200 NI

AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NI

AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NI

AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NI

AD-A118 506 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC (1)  
JUL 82  
UNCLASSIFIED USAFETAC/DS-82/041 SBI-AD-E850 200 NI

5. 6

1.  $\mathbf{A} = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ ,  $\mathbf{B} = \begin{bmatrix} 4 & 3 \\ 2 & 1 \end{bmatrix}$

100

## PSYCHROMETRIC SUMMARY

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

JUL

**MONTH**

PAGE 1

0900-1100

NOV 23 11 53 T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
6 / 95																	.1	1	1					
4 / 93																.1	.4	4	4					
2 / 91															.4	.2	.6	10	10					
0 / 89														.5	.7	.9	.5	21	21					
-8 / 87														.9	.7	.4	.4	19	19					
-6 / 85											.1	.6	2.1	1.2	1.5	.5		49	49					
-4 / 83											.6	2.0	1.6	2.1	1.0	.1		60	60					
-2 / 81										1.0	1.6	2.3	1.7	1.1	.2			65	65					
0 / 79							.2	.9	2.3	3.4	2.8	.7	1.0	.1				94	94					
7 / 77							.1	1.1	1.3	2.8	2.7	1.7	.2					82	83					
26 / 75							.9	2.7	3.3	3.0	2.2	.5		.1				104	104					
24 / 73					.1	.1	1.5	1.8	3.0	1.2	.6		.1					70	70					
22 / 71				.1	.4	1.0	2.6	2.3	1.0	.9	.5							71	71					
20 / 69				.2	.6	1.7	1.5	1.5	.6	.2	.1							53	53					
66 / 67				.1	1.1	.9	.7	.7	.4	.2	.2							36	36					
66 / 65			.4	.2	.7	.7	.5	.2										23	23	14				
47 / 63			.1	.7	.4	.5	.5	.2		.1								21	21	72				
42 / 61		.1	.1	.2	.4	.4	.1											11	11	168	3			
40 / 59	.1	.2	.1	.2	.4	.1	.1		.1									12	12	214	10			
40 / 57	.1	.7																7	7	185	23			
50 / 55		.2	.2															4	4	95	53			
4 / 53		.2																2	2	38	63			
2 / 51		.1																1	1	23	88			
5 / 49																				6	89			
4 / 47																				3	111			
4 / 45																				1	105			
44 / 43																				1	62			
2 / 41																					58			
4 / 39																					54			
30 / 37																					21			
30 / 35																					30			
34 / 33																					16			
22 / 31																					14			
3 / 29																					10			
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

73-81

**JUL**  
**MONTH**

YEARS

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

**JUL**  
**MONTH**

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point					
10/ 99																	.2	2	2						
9/ 97																	.7	6	6						
6/ 95																	1.7	14	14						
4/ 93																.4	4.5	40	40						
2/ 91															.6	1.1	3.1	39	39						
1/ 89														.9	2.1	3.1	3.4	77	77						
8/ 87											.9	.9	2.3	3.4	3.7	1.5	103	103							
6/ 85									.1	.5	1.6	1.7	3.8	4.2	1.6	.2	112	112							
4/ 83								.1	.2	1.2	3.1	2.3	3.3	2.3	.6		108	108							
2/ 81								.1	.4	.9	2.4	2.1	1.6	1.3	.6	.1	78	78							
1/ 79								.1	.9	1.5	2.6	2.6	.7	.4	.1		72	72							
7/ 77								.6	.7	1.5	1.5	1.0	.1				44	44							
6/ 75							.2	.1	.9	1.0	.5	.1	.1				24	24							
4/ 73						.2	.5	.9	.7	.4	.2	.1					25	25							
2/ 71				.1	.1	.4	.4	.9	.2	.1							18	18							
1/ 69			.1	.2	.6	.5	.5	.1	.1								18	18							
6/ 67			.1	.4	.6	.2											11	11	5						
6/ 65			.4	.1	.1		.1			.1							6	6	24						
4/ 63			.2	.1	.1												3	3	93						
2/ 61		.2	.1	.1													4	4	177	3					
1/ 59	.2			.2													4	4	234	11					
5/ 57		.4	.1														4	4	176	16					
5/ 55		.2															2	2	79	30					
4/ 53			.1														1	1	21	28					
2/ 51		.2															2	2	4	39					
5/ 49																			4	62					
4/ 47																				68					
4/ 45																				68					
4/ 43																				83					
2/ 41																				74					
4/ 39																				72					
3/ 37																				69					
1/ 35																				52					
34/ 33																				38					
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb																									
Wet Bulb																									
Dew Point																									

## PSYCHROMETRIC SUMMARY

**YEARS**

     JUL       
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
6/ 29																		.4		3	3			
8/ 97																		1.0		8	8			
6/ 95																		3.7		30	30			
6/ 93																	.2	5.4		46	46			
7/ 91																.5	1.2	5.4		58	59			
7/ 89														1.5	1.5	3.8	5.7		101	101				
8/ 87												.4	.6	1.8	3.1	4.3	2.1		100	100				
8/ 85											.5	.6	1.8	2.7	4.3	1.7	.2		97	97				
4/ 83								.4	.2	.6	1.5	2.6	3.4	2.7	.9	.1			101	101				
4/ 81								.4	.7	1.7	1.6	1.8	1.5	.7	.1				70	70				
7/ 79								.2	.4	.7	1.7	.9	.9	.2					41	41				
7/ 77							.2	.1	.1	1.7	.9	1.0	.2						35	35				
7/ 75						.1	.1	.6	1.4	.9	.6	.1							31	31				
7/ 73						.1	.4	.5	.7	.5	.2	.1	.1						22	22				
7/ 71					.1	.5	.7	.2	.5	.1	.1								19	19				
7/ 69					.2	.7	.2												10	10				
6/ 67				.1	.1		.1	.1											4	4	4			
6/ 65				.1	.9	.2													10	10	20			
4/ 63		.1	.4	.1	.1														6	6	72			
2/ 61		.4																	3	3	140	2		
7/ 59	.2	.1		.1															4	4	264	14		
5/ 57	.1	.4																	4	4	193	12		
5/ 55		.4	.5																7	7	88	31		
4/ 53		.1																	1	1	24	25		
2/ 51		.1																	1	1	6	30		
5/ 49																					1	48		
4/ 47																						59		
4/ 45																						54		
4/ 43																						47		
4/ 41																						65		
4/ 39																						79		
3/ 37																						78		
3/ 35																						75		
3/ 33																						52		
Element (X)	Σ X'		Σ X		Σ		Σ <sub>A</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (O. A.) revised previous edition of this form are obsolete  
JUL 64

USAFETAC

## PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

**YEARS**

**JUL**  
**MONTH**

PAGE 2 1500-1700  
MAY 1963 (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

YEARS

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MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	=31	Dry Bulb	Wet Bulb	Dew Point						
8/ 97																	.1	1	1							
6/ 95																	.2	2	2							
4/ 93																	1.1	9	9							
2/ 91																.2	1.8	17	17							
0/ 89														.1	.1	1.1	2.6	32	32							
8/ 87														.5	.7	1.7	.6	29	29							
6/ 85										.1	.1	.2	1.2	1.7	2.7	1.5	.6	67	67							
4/ 83											.2	.2	1.0	2.5	1.6	.4		48	48							
2/ 81									.1	.4	.2	1.6	3.1	2.3	1.4	.2		76	76							
0/ 79								.2	.4	1.0	2.2	2.3	1.8	1.4	.1			77	77							
7/ 77							.1	.1	.7	1.7	2.5	1.8	1.4	.6				73	73							
6/ 75							.2	1.0	2.7	1.6	3.0	1.4	.6		.1			86	86							
4/ 73						.2	1.1	1.4	2.1	2.1	1.2	.5	.5					74	74							
2/ 71					.2	.9	1.4	1.8	1.1	1.4	.4	.2						60	60							
0/ 69				.2	.4	1.1	1.0	.5	.6		.6	.1						37	37							
6/ 67				.5	.5	.5	.9	.5	.1									24	24		1					
4/ 65			.2	.6	.9	1.0	.7	.4		.1								32	32		10					
2/ 63			.9	.7	.1				.1									15	15		27					
0/ 61		.5	1.0	.2	.2	.1	.1											18	18		91	2				
8/ 59			.5	.4														7	7		195	15				
6/ 57		.2	.5	.2														8	8		216	19				
5/ 55	.1	.6	.9															13	13		146	42				
4/ 53	.1	.5	.1															6	6		84	45				
2/ 51			.1															1	1		28	43				
5/ 49																					12	68				
4/ 47																					2	67				
4/ 45																						61				
4/ 43																						55				
2/ 41																						53				
4/ 39																						81				
3/ 37																						60				
7/ 35																						55				
34/ 33																						43				
2/ 31																						46				
Element (X)	ΣX'		ΣX		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-20-5 (O.L.A.)  
USAFETAC



## PSYCHROMETRIC SUMMARY

725690                      NATRONA CO/CASPER WY  
STATION                      STATION NAME

73-81

YEARS

JUL  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

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**MONTH**

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HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

70569 NATRONA CO/CASPER WY

73-81

YEARS

JUL  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
0 / 99																		.1	5	5				
8 / 97																		.2	15	15				
6 / 95																		.7	47	47				
4 / 93																		.1	99	99				
2 / 91																	.2	.4	1.4	124	125			
0 / 89															.4	.6	1.1	1.5	231	231				
8 / 87												.2	.2	.7	1.0	1.3	.6	.251	251					
6 / 85										.0	.2	.4	.9	1.2	1.6	.7	.1	328	328					
4 / 83									.1	.1	.3	.8	1.0	1.5	.9	.2	.0	322	322					
2 / 81								.0	.1	.4	.8	1.0	1.1	.8	.4	.1		298	298					
0 / 79								.1	.3	.7	1.4	1.2	.6	.4	.0			311	311					
7 / 77							.1	.2	.4	1.1	1.2	.9	.4	.1				284	285					
6 / 75						.1	.2	.6	1.1	1.2	1.2	.4	.2	.0	.0			329	330					
4 / 73					.0	.1	.6	.7	1.3	1.1	.7	.2	.2					318	318					
2 / 71				.0	.1	.4	.9	1.4	1.1	.9	.4	.1		.0				355	355					
0 / 69				.1	.3	.9	1.1	1.2	1.0	.4	.4	.1						350	350					
6 / 67			.1	.3	.6	.8	1.5	1.0	.7	.4	.2	.0						361	361	10				
4 / 65		.0	.3	.4	.9	1.2	1.0	.6	.5	.2	.0	.0						336	336	72				
2 / 63	.0	.2	.9	.6	.9	1.1	.7	.3	.2	.2	.0							331	331	283	2			
0 / 61	.0	.6	.9	1.0	1.3	.6	.6	.3	.2	.1								364	364	651	20			
7 / 59	.1	1.0	.9	1.2	1.2	.7	.4	.1	.1									375	375	1178	108			
5 / 57	.2	1.3	1.0	1.0	1.0	.4	.2	.2	.1									343	343	1209	214			
3 / 55	.0	1.0	1.5	.8	.5	.3	.1	.1	.0									297	298	983	315			
1 / 53	.0	1.0	.9	.5	.4	.2	.1	.0										208	208	745	369			
2 / 51	.0	.9	.6	.3	.2	.1	.0											139	139	539	489			
5 / 49	.0	.4	.2	.2	.0	.1												59	61	411	624			
4 / 47		.2	.1	.1	.0	.0												26	26	196	726			
4 / 45	.0	.1	.1	.0	.0													19	19	143	702			
14 / 43	.0	.0	.0															5	5	66	502			
2 / 41		.0	.0															1	1	34	488			
4 / 39		.0																1	1	9	494			
3 / 37																				3	361			
3 / 35																					328			
3 / 33																					215			
Element (X)	Σ x²			Σ x			Σ			°x			No. Obs.			Mean No. of Hours with Temperature						Total		
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (O.L.A.) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

725690      NATRONA CO/CASPER WY  
STATION      STATION NAME

73-81

YEARS

1111

MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
2 / 31																					238		
2 / 29																					129		
2 / 27																					86		
2 / 25																					59		
2 / 23																					29		
2 / 21																					18		
1 / 19																					9		
1 / 17																					3		
1 / 15																					2		
1 / 13																					2		
TOTAL	.5	6.8	7.6	6.5	7.5	6.9	7.3	6.8	7.2	6.7	6.8	5.4	4.5	5.1	4.7	3.8	6.0		6538		6532		
																		6532		6532			

## PSYCHROMETRIC SUMMARY

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AUG

MONTH

PAGE 1

0000-0200

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

AUG  
MONTH

0300-0500  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725697 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81  
YEARS

AUG  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
88 / 87																	.1	.1	1	1				
87 / 81																			1	1				
86 / 79										.1	.1	.2	.1						5	5				
77 / 77											.1	.2	.1						4	4				
76 / 75									.2	.2	.6	.2	.1						12	12				
74 / 73								.5	.4	.6	.5	.4	.1						20	20				
71 / 71						.1	.4	.9	.4	.5	.5	.1	.1						24	24				
7 / 69				.1		.2	.5	.7	1.6	1.0	.4	.2							39	39				
6 / 67					.4	1.1	1.3	1.2	.7	.4	.4								45	45				
66 / 65				.1	1.2	1.6	1.0	1.2	1.3	.2	.1								56	56				
4 / 63			.4	.2	1.2	1.5	1.8	1.0	.4										53	53	1			
2 / 61		.2	.5	.9	2.7	2.1	2.1	.5	.6	.1									79	79	5			
6 / 59		.2	1.0	1.2	2.3	2.2	1.8	1.0											80	80	25	2		
5 / 57	.1	.6	1.6	3.3	1.5	1.2	1.0	.4	.1	.1									81	82	53	9		
5 / 55		2.0	2.8	1.8	2.1	1.1	.6	.1											86	86	87	14		
4 / 53		1.0	2.0	1.5	2.5	.4	.7	.1											66	66	130	33		
2 / 51	.1	1.6	2.6	1.3	1.1	.2	.1												58	58	136	46		
5 / 49	.1	.7	1.8	1.5	.5	.2													40	40	112	92		
4 / 47		.9	1.1	.5	.7	.1													27	27	90	87		
4 / 45		1.5	.9	.4		.1													23	23	80	81		
4 / 43		.1	.2																3	3	47	87		
42 / 41		.4	.4	.2	.1														9	9	24	84		
4 / 37			.1	.1															2	2	16	79		
36 / 37																					4	65		
66 / 35		.1																	1	1	3	44		
34 / 33																					2	27		
2 / 31																						29		
7 / 29																						18		
2 / 27																						4		
26 / 25																						7		
24 / 23																						4		
2 / 21																						2		
2 / 19																						1		
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								
Mean No. of Hours with Temperature																								
		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F												



## PSYCHROMETRIC SUMMARY

72569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

AUG  
MONTH

**PAGE 2**

0600-0800  
HOURS (L. S. T.)

[illegible]

REPLACES PREVIOUS EDITIONS OF THIS FORM AND OBSOLETE

**0-26-S (OL A)**

FORM 1041

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

**AUG**  
**MONTH**

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
67/ 95																	.1	1	1						
67/ 91																	.2	2	2						
67/ 89														.1	.1	.2	.2	6	6						
68/ 87														.6	.6	.6	.1	16	16						
66/ 85													.5	.6	1.2	.6	.1	25	25						
64/ 83										.1		.6	1.0	1.2	.6	.1		30	30						
62/ 81										.1	.5	.6	1.5	2.1	.9			46	46						
61/ 79										.1	.9	1.5	1.2	1.6	1.0	.1		52	52						
71/ 77								.4	.5	1.5	2.1	2.2	1.2	.7				70	70						
66/ 75								.5	1.7	3.6	2.2	1.2	.9					82	82						
74/ 73					.1	.1	.7	1.1	1.9	1.4	3.3	.6	.4					78	78						
72/ 71					.2	1.2	2.1	2.6	2.0	.5	.4							73	73						
71/ 69					.1	1.1	3.1	2.4	1.6	.7	.4	.1	.1					78	78						
68/ 67					.5	.7	2.4	2.0	1.6	.2	.5	.4						67	67	1					
66/ 65			.1		.1	2.4	1.2	.6	1.1		.1							46	46	1					
64/ 63		.1		.2	.5	1.4	1.4	.6	.4	.2								39	39	17					
62/ 61		.2		.7	.4	.5	.5	.4	.1									23	23	51					
61/ 59			.7	.4	.7	.5	.1	.5										24	25	123					
57/ 57		.2	.4	.4	.5	.6	.4	.2										22	22	160					
56/ 55		.2	.4	.2	.5	.2												13	13	190					
54/ 53		.1	.1	.1	.2	.1												6	6	115					
52/ 51			.1		.1													2	2	69					
51/ 49		.1	.2															3	3	36					
48/ 47																				24					
46/ 45		.2																2	2	15					
44/ 43		.1																1	1	4					
42/ 41																				1					
41/ 39																									
38/ 37																									
36/ 35																									
34/ 33																									
32/ 31																									
31/ 29																									
28/ 27																									
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ						
Rel. Hum.																									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

620

## 620

73-81

YEARS

AUG  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

YEARS

AUG

MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb	Dew Point	
2/171																		.1	1	1		
10/89																		.1	1	1		
8/97																		.2	2	2		
6/95																		.2	2	2		
4/93																		1.6	13	13		
2/91																.1	.6	1.1	15	15		
7/89														.2	.5	2.1	2.9	47	47			
8/87													.5	1.6	2.6	3.9	2.3	89	89			
6/85												.6	1.1	2.1	4.3	4.1	.4	103	103			
4/83											.6	.6	2.8	2.9	2.3	.7	.2	84	84			
7/81									.1	.5	1.3	2.6	2.8	1.6	1.5	.1		86	86			
7/79									.5	.6	1.3	1.1	2.6	2.1				67	67			
7/77								.1	1.6	1.1	2.1	1.8	1.3	.7				72	72			
6/75								1.0	.6	1.7	1.7	1.5	.6	.1				59	59			
4/73								.6	1.1	1.0	.6	.4		.1				31	31			
7/71						.4	.1	.5	1.2	.4	.4	.2	1.0	.1				35	35			
7/69					.1	.1	.9	.5	.7	.4	.2	.2	.4					29	29			
6/67				.1	.2	.5	.4	.1	.6	.4	.2	.1						22	22			
6/65				.2	.4	.1	.2	.4	.4	.1								15	15	4		
4/63		.1	.1	.2	.1	.4	.2	.2	.4									15	15	42		
2/61					.2	.7	.4	.1										12	12	95		
7/59		.2		.1	.2		.1		.1									6	6	176	2	
5/57		.2	.1	.2	.2		.1											8	8	207	5	
5/55			.2		.1													3	3	152	20	
4/53				.1														1	1	63	21	
2/51			.2															2	2	39	31	
5/49		.1																1	1	22	36	
4/47																				17	58	
4/45																				4	66	
4/43																					65	
2/41																					60	
4/39																					81	
3/37																					90	
7/35																					57	
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

AUG  
MONTH

[illegible]

## PSYCHROMETRIC SUMMARY

725697	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

**AUG**  
**MONTH**

PAGE 1      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
0 / 79																	.1	1	1					
8 / 97																	.4	3	3					
6 / 95																	1.0	8	8					
4 / 93																	1.6	13	13					
2 / 91															.1	.2	2.6	24	24					
0 / 89														.1	.6	2.8	4.7	67	67					
8 / 87											.1	.1		1.0	1.6	5.8	3.9	102	102					
6 / 85											.1	.4	1.0	1.6	2.7	4.1	1.4	91	91					
4 / 83											.5	.7	2.1	1.5	2.6	2.0		76	77					
2 / 81										1.0	.6	1.2	2.9	3.1	2.5	.1		93	93					
0 / 79									.4	.7	1.1	2.2	1.2	2.7	.4			71	71					
7 / 77									.6	.5	1.7	2.1	.6	1.0				53	53					
6 / 75							.1	.2	.5	.6	1.4	1.5	.2	.4				40	40					
4 / 73						.1	.2	1.0	.2	1.2	.5	.1	.6	.6				38	38					
2 / 71					.2	.6	.2	.5	.4	.7	.5	.1	.2					23	23					
0 / 69				.2	.6	.2	.2	.5	.4	.6	.1							24	24					
6 / 67				.2	.4	.4	.4	.7	.4	.4								23	23	1				
4 / 65			.1	.5	.5	.2	.1	.2	.4									17	17	3				
2 / 63		.2	.5	.2	.4				.4									14	14	32				
0 / 61	.2	.1	.1															4	4	70				
7 / 59	.2	.2	.2	.1														7	7	155				
5 / 57	.2	.4	.1	.1	.2													9	9	214				
5 / 55		.2	.5	.1														7	7	186				
4 / 53		.1																1	1	74				
2 / 51	.4	.1	.1															5	5	33				
5 / 49																				31				
4 / 47																				14				
4 / 45																				1				
4 / 43																								
2 / 41																								
4 / 39																								
3 / 37																								
2 / 35																								
3 / 33																								
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ					
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

73-81

YEARS

**AUG**  
**MONTH**

PAGE 2 1500-1700  
HOURS (L. S. Y.)

[illegible]

## PSYCHROMETRIC SUMMARY

**AUG**  
**MONTH**

HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

AUG  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1      2100-2300  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

...

ALL  
HOURS (L. S. Y.)

## PSYCHROMETRIC SUMMARY

725690      NATRONA CO/CASPER WY  
STATION      STATION NAME

73-81

YEARS

AUG  
MONTH

PAGE 2

411

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																								TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
3 / 33																			12	382								
2 / 31																			1	393								
1 / 29																				294								
2 / 27																				165								
1 / 25																				106								
2 / 23																				49								
2 / 21																				54								
1 / 19																				37								
1 / 17																				16								
1 / 15																				3								
TOTAL	.1	6.3	8.4	8.0	8.4	8.0	7.7	7.1	7.8	6.0	5.7	5.2	5.1	4.6	3.9	4.2	3.5	6551	6556	6551								

## PSYCHROMETRIC SUMMARY

72569

NATRONA CO/CASPER WY

73-81

SEP

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

0000-0200

HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

725697	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

SEP  
MONTH

PAGE 2

0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

SEP

**MONTH**



## PSYCHROMETRIC SUMMARY

73-81

YEAR

SEP  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

725697 NATRONA CO/CASPER WY

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point							
89																.3	.1	3	3									
87																.3		4	4									
85														.1	.6	.4	.1	10	10									
83												.1	.8	.6	.1			10	10									
81												.1	.4	.6	.1			10	10									
79											.3	.5	.6	1.3				21	21									
77										.3	.4	.8	.8	1.4				28	28									
75									.3	.6	1.4	1.4	2.0	.6				50	50									
73								.1	.3	.6	1.1	1.3	1.6	.1				41	41									
71								.4	.4	1.5	1.1	2.0	.6					48	48									
69					.1		.3	.6	1.8	1.1	1.6	1.3	.6					59	59									
67							.3	.6	2.0	1.8	1.9	.9						59	59									
65				.3		.3	.5	2.3	.9	1.0	.9							48	49									
63						.8	1.0	1.0	1.1	1.3	.5							45	45									
61			.1	.1	.5	1.3	.6	1.4	1.1	1.0								49	49		4							
59			.1	.1	.9	1.0	1.4	1.4	1.0	.3								49	50	18								
57			.3	.6	.3	1.7	1.1	1.9		.1								42	42	41	1							
55	.1	.5	.3	.6	.5	1.0	.9	1.3	.3	.1								44	44	59	4							
53	.3	.1	.6	.1	.6	1.1	.5	.4										30	30	106	10							
51		.1	.3	.8	1.0	1.1	.6	.1	.1									33	33	121	2							
49		.3	.6	.4	.4	.4												16	16	101	10							
47		.1	.6	.8	.9	.6	.1											25	25	80	26							
45	.6	.1	1.4	.9	.6	.4												32	32	84	43							
43	.3	.8	.5	.4	.1	.1												17	17	65	37							
41				.4	.1													4	4	51	40							
39		.1	.1	.1														3	3	26	86							
37	.1	.3	.1															4	4	17	89							
35	.3	.5																6	6	10	81							
33	.4	.1																4	4	10	58							
31		.1																1	1	2	78							
29																						82						
27																						50						
25																						42						
23																						24						
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																												
Dry Bulb																												
Wet Bulb																												
Dew Point																												

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

725690	NATRONA GQ/CASPER WY
STATION	STATION NAME

73-81

SEP  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
2 / 21																								13
1 / 17																								15
1 / 17																								2
1 / 15																								1
1 / 13																								1
TOTAL	2.2	3.1	4.4	5.8	6.0	9.1	7.7	11.4	9.2	9.7	9.2	8.3	6.7	4.9	1.4	.9	.3			795	797		795	

## PSYCHROMETRIC SUMMARY

SEP  
MONTH

**1200-1400**

HOURS (L, S, T.)

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 1      1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

73-81

SEP  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

72569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

SEP  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
2 / 21																					36
/ 17																					36
/ 17																					21
1 / 15																					12
/ 13																					4
1 / 11																					2
/ 9																					2
TOTAL	.5	4.2	4.2	6.0	7.1	7.4	7.9	7.9	12.8	9.9	8.2	9.6	5.8	4.1	2.6	1.3	.4		780		780
																			780		780

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 1

2100-2300  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**YEARS**

**SEP**  
**MONTH**



## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

ALL

ALL  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point															
2 / 61										.2								2	2																
1 / 59						.1				.2								3	3																
5 / 57						.2	.1		.8		.1							11	11																
5 / 55					.2	.2	.2	.5	.7	.4								19	19																
4 / 53					.2	.7	1.2	.7	.4									27	27																
2 / 51					1.0	.8	.8	1.0										30	30																
5 / 49		.1		.4		.4	1.2	1.0	.5									29	29	3															
1 / 47		.1	.6	.4	.5	1.2	1.2	.1										34	34	4															
4 / 45		.7	.6	1.0	1.9	.8	1.5											54	54	9	2														
4 / 43		1.0	.5	2.1	3.2	1.8	.5											74	74	38	1														
2 / 41		1.7	1.7	2.8	3.4	.7												79	79	51	15														
4 / 39		1.8	3.6	2.7	1.8	.5												86	86	61	17														
3 / 37	.2	3.4	2.2	2.7	.6													75	75	111	29														
3 / 35	.6	1.9	1.6	1.3	.7	.1												52	52	128	41														
3 / 33	.1	2.7	1.8	1.7	.5													56	56	112	45														
2 / 31	.4	4.5	4.0	1.3	.1													85	85	76	87														
1 / 29	1.2	1.5	.8	.2	.1													32	32	82	66														
2 / 27	.6	1.9	.5	.1														26	26	60	89														
1 / 25	.1	1.0	.5	.1														14	14	37	89														
2 / 23	.5	1.6	.1															18	18	21	82														
2 / 21	.5	1.0																12	12	19	62														
1 / 19	.2	.1																3	3	8	97														
1 / 17		.4																3	3	4	47														
1 / 15																					23														
1 / 13																					18														
1 / 11																					6														
1 / 9																					2														
1 / 7																					2														
1 / 5																					3														
1 / 3																					1														
TOTAL	4.5	25.4	17.8	16.7	14.7	8.6	6.6	2.8	1.9	.8	.1							824	824	824	824														
Element (X)	Σ x'				Σ x				Σ				No. Obs.				Mean No. of Hours with Temperature																		
Rel. Num.	3595505				51653				62.920.099				824				≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	1332157				32398				39.38.418				824					21.8						93											
Wet Bulb	974978				27934				33.95.833				824					34.6						93											
Dew Point	606111				21605				26.26.940				824					76.1						93											

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

72569 NATRGNA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

OCT  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
/ 59								.1										1	1						
/ 57					.1		.2	.1	.2									6	6						
5 / 55					.2	.1	.5	.4	.5	.1								15	15						
4 / 53					.2	.4	.5	.9	.2									18	18						
2 / 51					.7	.5	1.1	.4										22	22						
5 / 49		.2	.1	.2	.6	1.2	1.0	.6										33	33	2					
/ 47			.4	.4	.9	.5	2.0											33	33	5	1				
4 / 45		.6	.1	.1	2.2	2.3	1.0											52	52	10	1				
4 / 43		1.3	.4	1.2	2.3	1.8	.1											59	59	25					
2 / 41		1.6	.9	2.3	2.9	1.5												75	75	41	15				
/ 39	.2	1.0	2.2	1.8	1.1	.2												54	54	58	19				
3 / 37	.5	2.0	2.4	2.9	1.7													78	78	78	20				
/ 35	1.0	3.5	2.0	2.3	.7													78	78	119	22				
3 / 33	.6	3.9	1.2	1.6	.4													63	63	117	50				
2 / 31	1.1	5.5	2.2	.4														75	75	99	82				
/ 29	1.2	2.7	2.3	.2														53	53	94	85				
2 / 27	.6	3.1	.7	.2														38	38	57	82				
/ 25		1.8	.4	.1														19	19	47	78				
2 / 23		1.6	.1															14	14	23	88				
2 / 21	.1	1.1	.1	.2														13	13	15	65				
/ 19	.4	1.0																11	11	10	107				
/ 17	.5	.2																6	6	16	46				
1 / 15	.1																	1	1	1	26				
1 / 13																					17				
1 / 11																					7				
/ 9																					2				
/ 7																					1				
/ 5																					1				
/ 3																					2				
TOTAL	6.4	31.2	15.5	14.2	14.2	8.6	6.4	2.4	1.0	.1								817	817		817				
								</																	

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

**OCT**  
**MONTH**

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point														
6 / 65											.1							1	1															
4 / 63											.1							1	1															
2 / 61											.2							5	5															
1 / 59									.2		.2							4	4															
1 / 57								.1	.4	.6	.2							11	11															
5 / 55						.2	.4	1.2	.5									19	19															
4 / 53				.5	.2	.7	.7	.6	.2									25	25															
2 / 51			.1	.1	.6	.4	2.1	.7										33	33															
5 / 49				.1	.7	1.7	1.0	.2										31	31															
4 / 47			.1	.1	1.2	3.0	2.1											53	53	8														
4 / 45		.4	.4	.9	1.4	2.6	.5											49	49	12														
4 / 43		1.4	.2	1.1	2.7	1.8	.1											60	60	29	5													
2 / 41		1.8	1.7	2.2	2.5	.6												72	72	63	8													
4 / 39	.1	1.4	2.0	1.5	1.7	.4												57	57	69	17													
3 / 37	.4	1.8	2.2	2.6	.7	.1												64	64	94	26													
1 / 35	.2	3.6	1.7	1.7	.6	.2												66	66	116	26													
3 / 33	.9	4.1	1.1	1.2	.1													60	61	104	46													
2 / 31	.7	5.2	2.6	1.0														77	77	86	88													
2 / 29	1.2	2.6	1.4	.1														43	43	89	82													
2 / 27	.4	1.5	.6	.1														21	21	48	106													
2 / 25	.1	2.3	.2	.2														24	24	34	80													
2 / 23	.1	1.0	.2															11	11	23	78													
2 / 21	.1	1.1																10	10	16	64													
1 / 19	.4	.6																8	8	13	103													
1 / 17	.2	.2																4	4	4	41													
1 / 15		.1																1	1	2	17													
1 / 13	.1																	1	1	1	14													
1 / 11																					4													
1 / 9																					3													
1 / 7																					1													
1 / 5																					1													
1 / 3																					1													
TOTAL	5.1	29.1	14.7	13.6	12.6	11.8	7.0	3.5	1.7	.9	.1							611	812	611	811													
Element (X)	ΣX <sup>2</sup>				ΣX				ΣX				ΣX				No. Obs.				Mean No. of Hours with Temperature													
Rel. Hum.	3597982				51302				63.3				20.868				811				≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb	1319560				31910				39.3				8.991				812						22.9										93	
Wet Bulb	959179				27459				33.9				6.031				811						36.2										93	
Dew Point	592214				21280				26.2				6.464				811						78.3										93	



## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

OCT

[illegible]

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81  
YEARS

OCT  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
4 / 83																	.1	1	1					
7 / 81																	.1	.1	4	4				
7 / 79															.7	.1	.1	8	8					
7 / 77													.2	1.6	.4			18	18					
6 / 75												.5	1.4	1.9	.2			32	32					
4 / 73											.5	1.2	2.2	1.0				40	40					
7 / 71										.2	.7	1.7	2.4	.2				43	43					
7 / 69								.1	.2	.2	2.5	2.4	1.0					52	52					
6 / 67								.1	.6	.6	2.4	1.6	.1					44	44					
6 / 65							.1	.2	.5	1.5	2.2	.5	.2					43	43					
4 / 63							.1	.4	1.2	1.2	1.0							32	32					
7 / 61							.1	1.5	1.6	1.0	.7							40	40					
7 / 59						.2	1.0	2.1	1.6	1.5								52	52					
7 / 57					.2	.7	.5	2.4	1.2	1.1		.1						51	51					
5 / 55					.4	.6	1.2	3.1	1.2	.1								54	54	3				
4 / 53						1.4	2.2	1.5	.9									48	48	29				
2 / 51				.2	.9	1.0	1.4	1.0	.1									37	37	62				
5 / 49			.1	.1	.4	.4	1.0	.1	.1									18	18	116				
7 / 47		.1	.5	.1	.4	.9	.5	.2	.2									24	24	112				
4 / 45		.4	.4	1.0	1.5	.7	.1	.2										35	35	81	2			
4 / 43		.4	.1	.4	.7	.2	.2	.1										18	18	87	9			
2 / 41		.2	1.2	.5	.2	.4												21	21	82	14			
4 / 39	.1	.2	.4	.7		.1												13	13	62	17			
3 / 37	.1	1.1	1.0	.7	.4													27	27	57	28			
3 / 35		.7	.5	.2														12	12	29	46			
3 / 33	.2	.6	.1	.2														10	10	35	49			
2 / 31	.2	1.5	.4															17	17	19	103			
7 / 29		.5	.4															7	7	16	85			
25 / 27		.7																6	6	10	121			
25 / 25																				7	84			
24 / 23																					59			
2 / 21																					71			
7 / 19																					60			
15 / 17																					25			
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F			Total			
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OLA) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1 1500-1700  
HOURS (1 - 5 - 7)

## PSYCHROMETRIC SUMMARY

725690

NATRONA CO/CASPER WY

73-81

YEARS

OCT

MONTH

PAGE 2

1500-1700

HOURS (L - S - T -)

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

**1800-2000**  
HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

1000

**UŞAFETAC**



## PSYCHROMETRIC SUMMARY

73-81

OCT

PAGE 1 2100-2300

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

OCT  
MONTH

PAGE 2      2100-2300  
HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

ALL  
RS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
15	0.0	0.0																2	3	3	146				
13	0																	1	1	1	110				
11																					47				
9																					18				
7																					12				
5																					10				
3																					10				
1																					6				
-1																					1				
TOTAL	2.6	18.2	11.5	11.2	11.3	9.5	8.8	7.4	5.1	3.6	3.5	2.7	2.6	1.3	.4	.2	.0	6530	6534		6530				
																					</				

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFS WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569<sup>1</sup> NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

NOV

MONTH

PAGE 1

0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point																
5 / 55									.3																							2	2			
4 / 53								.4	.1	.1																						6	6			
2 / 51						.3		.1	.3	.5																						9	9			
5 / 49					.1	.4		.6	.9																							16	16			
4 / 47					.5	.9		.9	.3																							20	20			
4 / 45				.1	1.4	.5		.4																								19	19			
4 / 43				1.3	1.3	1.8		.5																								38	38			
2 / 41			.4	1.8	2.1	1.1		.5																								47	47	8		
4 / 39		.1	.4	1.9	1.4	.5																										34	34	22		
3 / 37			.6	1.6	1.0	.4																										29	29	42		
7 / 35		.6	1.6	1.1	.9	.5																										38	38	47	1	
3 / 33		1.5	1.4	1.6	.9																											43	43	69	6	
2 / 31	.4	3.0	4.2	.6	.6																											70	70	57	29	
7 / 29	.5	3.6	1.9	.6																												53	53	66	42	
7 / 27	.3	4.4	2.8	.1																												60	60	91	57	
7 / 25	.1	2.6	1.5	.4																												37	37	69	51	
7 / 23	.1	2.3	1.6	.1																												33	33	51	48	
2 / 21		3.3	1.3																													36	36	34	89	
7 / 19	1.3	5.8	.9																													63	63	54	92	
1 / 17	.5	2.3	.4																													25	25	52	59	
1 / 15	.6	1.9																														20	20	23	60	
1 / 13	.8	1.1	.4																													18	18	22	66	
1 / 11	1.1	.6																														14	14	17	46	
1 / 9	.8	1.3																														16	16	19	46	
7 / 7	.5	.8	.1																													11	11	9	30	
7 / 5	.4	.3	.1																													6	6	10	16	
7 / 3	.3	.1																														3	3	2	6	
7 / 1	.5	.6																														9	9	9	15	
7 / -1	.9	.4																														10	10	9	1	
-4 / -3	.1	.5																														5	5	7	4	
-4 / -5	.4	.1																														4	4	4	8	
-7 / -7																																		1	8	
-7 / -9	.1																															1	1	1	2	
-1 / -11																																			2	
Element (X)	Σ X <sup>2</sup>			Σ X			X	X <sup>2</sup>	No. Obs.			Mean No. of Hours with Temperature						Total																		
Rel. Hum.												≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																		
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM 0-26-5 (OL A) REVISED SEPTEMBER 1965 OF THIS FORM ARE OBSOLETE  
USAFETAC  
AL 34

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

0000-0200  
HOURS (L. S. T.)

SEVERAL PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**OL A)**

**1000**

**USAFETYAC**

## PSYCHROMETRIC SUM

**YEARS**

PAGE 1 0300-020  
MAY 11 1964

ELIOTNO PW WYON TML 40 PROCLING STOWING OFSLA2

A)

10

**-26-**

13

22

AC

## 35

5

## PSYCHROMETRIC SUMMARY

725690	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

## HOW

**MONTH**

**PAGE 2**

0300-0500

**HOURS (L, S, T.)**

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

NOV

MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

775690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

YEARS

**NOV**  
**MONTH**

PAGE 2

0600-0800  
HOURS (L-3-T)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
6 / 67											.1							1	1						
4 / 63										.3	.1							1	1						
2 / 61									.3	.3	.4							3	3						
0 / 59								.3	.3	.4								7	7						
2 / 57							.1	.6	.6	.3								13	13						
5 / 55						.1	1.0	1.9	.1									25	25						
4 / 53						.6	.9	.4	1.0									23	23						
2 / 51						1.1	1.6	.8	.3									30	30						
5 / 49					.4	1.1	.8	.6	.1									24	24						
4 / 47					.8	1.8	2.0	.3										38	38	3					
4 / 45				.8	.5	1.4	.8	.6										32	32	7					
4 / 43		.1	.1	.6	2.4	1.1	.6	.1										41	41	23					
2 / 41				1.9	1.4	1.6	.3											41	41	48					
4 / 39		.1	.8	1.6	1.0	.6	.1											34	34	45	1				
3 / 37			1.8	2.7	1.4	.5												50	50	49					
3 / 35		.4	2.2	1.1	1.4	.3												42	42	71	4				
3 / 33		1.0	1.1	2.0	.6													38	38	64	6				
2 / 31	.4	1.4	3.4	1.8	.4													58	58	72	45				
3 / 29	.1	1.0	2.7	1.3														40	40	56	53				
2 / 27		2.9	2.5	1.0														51	51	58	58				
2 / 25	.1	1.1	2.5															30	30	66	79				
2 / 23	.3	2.5	1.6															35	35	48	59				
2 / 21		2.3	.8															24	24	47	60				
2 / 19	.4	2.7	.6															29	29	34	91				
1 / 17	.5	2.1	.3															22	22	29	77				
1 / 15	.1	.8	.9															14	14	14	70				
1 / 13	.1	1.1	.3															12	12	12	57				
1 / 11	.3	.8	.3															10	10	13	34				
1 / 9	.1	.3																3	3	8	34				
1 / 7		.3	.1															3	3	4	13				
1 / 5		.3																2	2	3	10				
1 / 3	.1	.3																3	3	4	5				
1 / 1	.3	.5																6	6	4	10				
1 / -1	.3	.1																3	3	5	5				
Element (X)	Σ X'		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (OL A) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONTM

PAGE 2      0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
- / -3		.1																1	1	1	3		
- / -5																				1	1		
- / -7																					4		
- / -9																					2		
- / -11																					5		
-1 / -13																					1		
-1 / -15																					1		
-1 / -17																					1		
TOTAL	7.0	22.1	21.9	14.8	10.3	10.4	8.2	5.6	2.7	.9	.1							789	789	789			

Element (X)	Σ x'	Σ x	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2783236	44606	56.5	18.215	789	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1394740	27608	35.0	12.780	789	.5	39.5	.1				90
Wet Bulb	734337	22927	29.1	9.297	789	.8	54.6					90
Dew Point	355466	15376	19.5	8.416	789	2.6	88.7					90

## PSYCHROMETRIC SUMMARY

77569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

YEARS

NOV  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 STATION NATRONA CO/CASPER WY

73-81

YEARS

NOV  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
/ 69												.1						1	1					
6 / 67										.3	.3	.5						8	8					
6 / 65										.4	.9	.4						13	13					
4 / 63									.5	.9	.9	.1						19	19					
2 / 61								.1	.9	1.3	.3							20	20					
/ 59								.8	1.4	1.3	.1							28	28					
/ 57								.9	.8	1.1								22	22					
5 / 55							.4	1.7	.9	.5								27	27					
4 / 53						.3	1.3	1.0	1.3	.1								31	31					
2 / 51					.1	.1	1.1	.9	.6									23	23					
5 / 49						1.1	1.8	1.4	.3									36	36	3				
/ 47					.4	1.0	1.8	1.1										34	34	19				
4 / 45				.4	1.1	.8	1.5	.1										31	31	33				
4 / 43			.1	1.3	.9	1.7	.6	.3										38	39	41				
2 / 41			.3	1.4	1.5	1.3	.5	.1										40	40	48				
4 / 39			.8	2.0	2.7	1.0	.5											50	50	52				
3 / 37		.3	1.3	1.3	.9	.6	.3											36	36	65				
/ 35		.9	.8	1.5	1.1	.3												36	36	63	2			
3 / 33		.5	1.7	1.8	.9	.3												35	35	79	6			
2 / 31		.9	2.0	2.2	.1	.1												42	42	49	6			
/ 29	.1	.6	2.5	1.9														41	41	50	2			
/ 27		1.3	1.4	.9														28	28	48	2			
/ 25	.3	1.9	1.8	.3														33	33	64	6			
2 / 23	.3	1.7	.6	.4														18	19	46	6			
2 / 21	.3	2.7	1.1															27	27	34	7			
/ 19	.1	1.1	1.0															18	18	23	12			
/ 17	.3	1.3	.3	.1														15	15	22	6			
1 / 15	.3	.5	.3															8	8	13	6			
/ 13		.4	.1															4	4	4	2			
1 / 11		.9																7	7	5	2			
/ 9		.6																5	5	10	2			
/ 7	.1	.4	.1															5	5	6	2			
/ 5		.1																1	1	3	2			
/ 3		.3																2	2	1	2			
Element (X)	Σx'	Σx	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OL A) REUSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JAN 64  
USAFETAC

## PSYCHROMETRIC SUMMARY

70569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

NOV  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
/ 1		.5																	4	4	4	6	
/ -1																					1	5	
- / -3		.1																	1	1	1	4	
- / -5																						1	
- / -7																						2	
- / -9																						5	
- / -11																						1	
-14 / -15																						1	
TOTAL	1.7	15.6	15.5	15.4	9.1	8.5	9.8	8.4	6.6	5.8	2.4	1.1							787	789	787	787	
																			</				



## PSYCHROMETRIC SUMMARY

72569	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

**NOV**

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	O.S./W.B.	Dry Bulb	Wet Bulb	Dew Point					
/ 59								.5		.1								5	5							
- / 57								.1	.1	.1								3	3							
5 / 55								.4	.3									5	5							
4 / 53							.4	.8	.5									13	13							
2 / 51					.1	.5	.6	1.0	.5									22	22							
5 / 49					.5	1.4	.8	.3										23	23							
/ 47					.8	1.6	1.4	.4										33	33							
4 / 45			.1	.1	.5	2.3	1.3	.1										35	35	5						
4 / 43				1.1	1.8	1.1	.6	.1										38	38	5						
2 / 41			.5	2.1	1.5	2.0	.1											50	50	17						
4 / 39			.9	2.3	1.4	.9	.4	.1										47	47	38	1					
3 / 37		.1	1.1	1.8	1.4	.3												37	37	58	1					
3 / 35		.8	2.9	1.5	.4		.1											45	46	68						
3 / 33		1.0	2.8	2.1	.8													53	53	69	6					
2 / 31	.8	1.4	2.5	2.3	.4													58	58	83	41					
/ 29		1.8	1.9	.4														32	32	60	36					
2 / 27	.1	2.3	2.9	.9														49	49	58	61					
/ 25		2.6	2.1	.5														42	42	63	66					
2 / 23		1.4	.8	.3														19	19	48	50					
2 / 21	.8	3.3	.9	.4														42	42	43	61					
/ 19	.4	3.1	.9															35	35	45	109					
1 / 17	.3	2.1	.4															22	22	27	80					
1 / 15	.5	1.5																16	17	31	69					
1 / 13	.4	1.6	.3															18	18	15	45					
1 / 11	.3	.8																8	8	11	37					
/ 9	.3	.5																6	6	11	49					
/ 7	.4	1.1																12	12	10	19					
/ 5	.6	.4	.4															11	11	8	1					
/ 3	.4	.1																4	4	8	14					
/ 1	.3	.4																5	5	5	26					
/ -1	.3	.3																4	4	4	5					
- / -3																				2	2					
- / -5		.1																1	1		3					
- / -7																				1	1					
Element (X)	ΣX'		ΣX		Σ		Σ <sub>a</sub>		No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb																										
Wet Bulb																										
Dew Point																										

## PSYCHROMETRIC SUMMARY

775690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

**YEARS**

NOV  
MONTH

PAGE 2

**1800-2000**  
**HOURS (L. S. T.)**

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

NOV  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
5 / 55								.3									2	2		
4 / 53							.6	.8									11	11		
2 / 51						.4	.6	.5	.1								13	13		
5 / 49					.1	.6	.8	.6	.3								19	19		
4 / 47					.6	.9	1.4	.3									25	25		
4 / 45				.1	.9	1.0	.9										23	23		
4 / 43			.3	1.1	1.1	1.6	.3										35	35	2	
2 / 41			.6	2.0	1.8	1.9	.4										53	53	12	
4 / 39			.4	1.9	2.0	.4											37	37	24	
3 / 37			1.4	1.9	.8	.5											36	36	45	
3 / 35		.4	1.3	1.5	1.4	.4											39	39	61	1
3 / 33		1.4	2.7	1.1	.6												46	46	63	3
2 / 31	.5	3.3	3.7	2.4													78	78	76	36
2 / 29	.6	2.4	2.0	.4													43	43	68	28
2 / 27	.1	3.2	2.7	.1	.1												49	49	77	70
2 / 25	.1	2.4	1.1	.3													31	31	70	55
2 / 23	.1	1.9	1.3	.3													28	28	38	50
2 / 21	1.0	2.9	1.6	.3													46	46	41	82
2 / 19	1.0	4.3	.8														48	48	48	95
1 / 17	.6	1.6	.6														23	23	44	70
1 / 15	1.0	1.5															20	20	22	73
1 / 13	.9	1.6	.3														22	22	24	48
1 / 11	.6	.8															11	11	17	43
1 / 9	.6	.1															6	6	12	41
1 / 7		1.0															8	8	3	29
1 / 5	.6	.1															6	6	11	8
1 / 3	.5		.1														5	5	4	7
1 / 1	1.1	.6															13	13	12	18
1 / -1	.9																7	7	9	9
-1 / -3		.1															1	1	1	7
-4 / -5	.1	.4															4	4	3	4
-1 / -7	.1	.1															2	2	2	
-1 / -9																			1	2
-1 / -11	.1																1	1	1	2
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature						Total	
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 88 F	≤ 93 F		
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 0-26-5 (O.L.A.)  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

NOV

PAGE 2      2100-2300  
HOURS (L. S. T.)

[illegible]

0-26-5 (O: A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

**NOV**  
**ADMIN**

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																										TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point										
69												.0						3	3											
67											.1	.1	.1	.0				19	19											
65									.0	.1	.2	.1						23	23											
63									.2	.3	.2	.0						46	46											
61								.0	.3	.4	.1							52	52											
59								.3	.4	.3	.0							60	60											
57							.0	.4	.3	.3	.0							72	72											
55						.0	.3	.8	.3	.1								99	99											
53						.1	.6	.5	.6	.1								116	116											
51					.0	.4	.7	.6	.3									135	135											
49					.2	.7	.9	.7	.1									162	162	9										
47			.0	.0	.7	1.2	1.3	.5										236	236	46										
45			.0	.3	.9	1.1	.9	.2										217	218	78										
43		.0	.1	.9	1.5	1.4	.5	.1										275	276	128										
41			.3	1.8	1.6	1.4	.4	.0										350	350	195										
39		.1	.6	1.8	1.6	.8	.2	.0										325	325	272	2									
37		.1	1.3	1.7	1.1	.5	.0											294	294	383	3									
35		.6	1.6	1.4	1.2	.3	.0											318	319	469	14									
33	.0	1.1	1.6	1.7	.8	.0												335	335	533	45									
31	.3	1.8	2.9	1.7	.3	.0												447	447	506	291									
29	.4	2.1	2.2	.9														358	358	496	341									
27	.3	3.1	2.2	.6	.0													393	394	532	482									
25	.2	2.5	1.7	.3														292	292	541	470									
23	.3	2.2	1.1	.1														234	235	401	436									
21	.4	2.9	1.3	.1														295	295	318	599									
19	.6	3.7	.9															329	330	327	793									
17	.4	1.9	.4	.0														169	169	286	570									
15	.6	1.4	.2	.0														141	142	182	510									
13	.5	1.1	.3															117	117	132	438									
11	.5	.8	.0															88	88	106	372									
9	.4	.6	.0															66	66	101	299									
7	.3	.7	.1															69	69	58	186									
5	.3	.3	.1															42	42	65	77									
3	.3	.2	.0															29	29	31	72									
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature																			
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total							
Dry Bulb																														
Wet Bulb																														
Dew Point																														

## PSYCHROMETRIC SUMMARY

**YEARS**

NOV  
MONTH

PAGE 2

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
/ 1	.3	.5																50	50	48	110			
/ -1	.4	.1																33	33	38	37			
- / -3	.1	.2																18	18	23	36			
- / -5	.1	.1																11	11	10	31			
- / -7	.1	.0																5	5	8	27			
- / -9	.1	.0																5	5	5	21			
/ -11	.0																	2	2	3	19			
1 / -13	.0																	2	2	2	14			
1 / -15	.0																	2	2	2	10			
/ -17																					11			
/ -19																					7			
/ -21																					8			
2 / -23																					3			
TOTAL	5.728	118.9	13.3	9.9	8.0	5.8	4.1	2.5	1.7	.6	.2	.0						6334	6341		6334			

Element (R)	$\Sigma R$	$\Sigma R^2$	$\Sigma R^3$	$\Sigma R^4$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	25086206	377454	59.720	0.009	6334	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	7995297	277865	32.813	650	6341	8.9	363.5	2.5				720
Wet Bulb	5389257	173676	27.4	9.951	6334	10.3	479.8					720
Dew Point	2638842	116790	18.4	8.755	6334	25.5	712.7					720

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

YEARS

DEC  
MONTH

PAGE 1

0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL																	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																											
5 / 49							.5	.1										5	5																												
4 / 47					.4	.1	.1											5	5																												
4 / 45					.6	.4												8	8																												
4 / 43				.9	2.1	1.0	.1											33	33																												
2 / 41			.2	1.8	1.7	1.5	.1											44	44																												
4 / 39			.6	.7	1.8	1.1												35	35																												
3 / 37		.1	.7	.4	1.3	1.1												30	30																												
7 / 35		.4	1.8	.9	1.7	.5												43	43																												
3 / 33	.1	.4	1.1	2.0	.1													30	30																												
2 / 31		1.2	1.8	3.1	.1	.4												54	54																												
3 / 29	.5	1.0	3.3	1.3														50	50																												
2 / 27	.4	1.6	2.5	2.1														53	53																												
2 / 25	.4	2.5	2.5	.4														46	46																												
2 / 23		1.6	1.5															25	25																												
2 / 21	.9	3.2	2.1	.1														51	51																												
7 / 19	1.2	5.3	1.7															67	67																												
7 / 17	1.3	3.7	.6															46	46																												
1 / 15	1.7	2.8	.4															40	40																												
1 / 13	1.2	3.4	.6															43	43																												
1 / 11	.9	1.8																22	22																												
/ 9	.4	.7																9	9																												
/ 7	.5	.5																8	8																												
/ 5	1.7	.7																14	14																												
/ 3	.7	.2																8	8																												
/ 1	1.7	.4																11	11																												
/ -1	.7																	6	6																												
- / -3	.1	.5																5	5																												
- / -5	.1	.2																3	3																												
- / -7	.1	.1																2	2																												
- / -9	.6	.2																7	7																												
- / -11	.2																	2	2																												
-1 / -13	.1																	1	1																												
-1 / -15	.1																	1	1																												
-1 / -17																																															
Element (X)	ΣX²			ΣX			X̄			σ <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature																															
Rel. Hum.																≤ 0 F										≤ 32 F				≥ 67 F				≥ 73 F				≥ 80 F				≥ 93 F				Total	
Dry Bulb																																															
Wet Bulb																																															
Dew Point																																															

FORM 0-26-5 (OL A) REVERSED MIRROR EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

0000-0200  
HOURS 1L, 5, 7.

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
5 / 49							.2											2	2			
4 / 47					.2	.4	.1											6	6			
4 / 45				.1	.2	.4	.2											8	8			
4 / 43				.7	.5	1.0												18	18			
2 / 41			.1	1.7	.9	.7												28	28			
4 / 39			.6	1.0	1.8	1.4												39	39	3		
3 / 37			.6	1.1	1.2	1.0												32	32	17		
2 / 35		.5	2.1	1.2	1.6	.5												48	48	31		
3 / 33	.2	1.4	1.6	1.7	.6													45	45	43	1	
2 / 31	.1	1.7	1.7	1.7	.7	.4												52	52	56	16	
1 / 29	.7	1.0	3.4	2.1														59	59	67	35	
2 / 27	.2	2.0	2.5	1.4														49	49	55	40	
1 / 25	.1	2.2	2.0	.9														42	42	74	32	
24 / 23		1.6	1.7	.1														28	28	56	25	
2 / 21	.5	2.9	2.1															45	45	55	45	
1 / 19	.6	5.8	1.6															65	65	51	86	
1 / 17	1.0	3.7	.6															43	43	66	52	
1 / 15	1.4	2.5	.6															36	37	51	64	
1 / 13	2.0	2.3	.7															41	42	38	72	
1 / 11	1.4	2.5																31	31	31	89	
1 / 9	.5	1.1																13	13	31	69	
1 / 7	.2	1.4																13	13	14	45	
1 / 5	.6	.4																8	8	10	26	
1 / 3	1.8	.2																17	17	19	24	
1 / 1	.7	.4																9	9	7	22	
1 / -1	.7																	6	6	8	21	
-1 / -3	.4	.5																7	7	5	10	
-1 / -5	.4	.4																6	6	5	7	
-1 / -7	.2	.1																3	3	5	1	
-1 / -9	.2	.1																3	3	3	4	
-1 / -11																				1	5	
-1 / -13																					4	
-1 / -17																					3	
-1 / -19	.7																	6	6	6	4	
Element (X)	Σ x²		Σ x		x̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						
Dry Bulb																						
Wet Bulb																						
Dew Point																						

## PSYCHROMETRIC SUMMARY

DEC

HOURS (L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
1/-21	.2																		2	2	2			
2/-23	.1																		1	1	1			
2 1/-25																					3			
2 1/-27	.2																		2	2	2			
1/-29	.1																		1	1	1			
1/-31																					2			
3 1/-35																					1			
3 1/-37																					1			
2 1/-39																					1			
TOTAL	15.6	34.5	22.0	13.8	7.9	5.7	.6												814	814	814			

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 2

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL O.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
1 /-17	.2																		2	2	2	5		
2 /-19	.4																		3	3	3	2		
3 /-21	.1																		1	1	1	3		
4 /-23																						2		
5 /-25																						2		
6 /-27	.1																		1	1	1			
7 /-29	.2																		2	2	2	2		
8 /-37																						2		
9 /-39																						1		
TOTAL	15.9	33.1	24.3	14.2	8.2	3.0	.9	.4											822	823		822		

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel Hum.	3943701	55359	67.3	16.173	822							93
Dry Bulb	588867	19405	23.6	12.640	822	4.5	69.8					93
Wet Bulb	439691	16847	20.5	10.723	822	4.6	83.3					93
Dew Point	239562	11156	13.5	10.441	822	7.9	92.7					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

75697 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
/ 59										.1								1	1					
/ 57									.1									1	1					
5 / 55							.1	.1										2	2					
4 / 53						.1	.1	.1	.2									5	5					
2 / 51						.2	.4	.4										8	8					
5 / 49					.1	.4	.1											5	5					
/ 47					.7	1.0	.6											19	19					
4 / 45			.1	.1	.7	1.0	.1											17	17					
4 / 43				.7	1.2	1.3	1.1											36	36	4				
2 / 41			.2	2.1	.9	1.5	.2											40	40	10				
4 / 39			.2	1.5	2.0	2.1	.1											48	48	17				
3 / 37			.6	2.8	1.6	.7												47	47	36				
/ 35			1.6	1.7	2.2	.4												48	48	33				
3 / 33	.1		1.5	2.2	1.3	.1												40	40	50				
2 / 31	.1	.5	1.8	2.4	1.0	.1												49	49	76				
/ 29	.6	.5	2.8	2.2	.4													53	53	60				
/ 27	.6	2.2	3.5	1.3														63	63	66				
/ 25	.1	2.3	2.9	.7														50	50	76				
2 / 23	.1	2.1	2.6															39	39	75				
2 / 21	.2	4.0	1.8	.2														52	52	67				
/ 19	.6	4.4	2.1															58	59	58				
/ 17	.2	2.3	.5															22	22	46				
1 / 15	.7	.7	.7															18	18	36				
/ 13	.4	2.1	.2															22	22	13				
1 / 11	.9																	7	7	18				
/ 9	.2	1.3																10	10	14				
/ 7	.5	.9																11	11	12				
/ 5	.1	.4																4	4	7				
/ 3	1.7	.6																13	13	12				
/ 1	.4	.4																6	6	8				
/ -1	.1	.2																3	3	1				
- / -3	.1	.4																4	4	6				
- / -5	.1	.4																4	4	1				
- / -7	.5																	4	4	7				
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ					
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (O.L.A.)  
USAFETAC

## PSYCHROMETRIC SUMMARY

725692	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

**YEARS**

DEC  
MONTH

PAGE 2 0900-1100

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

# PSYCHROMETRIC SUMMARY

72569 STATION NATRONA CO/CASPER WY

73-81

YEARS

DEC MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
7 / 51										.1								1	1						
7 / 59								.1	.2	.2								5	5						
5 / 57								.4	.2	.1								6	6						
5 / 55								.8	.8									14	14						
4 / 53						.4	1.2	.4										16	16						
2 / 51						.5	.8	1.0										19	19						
5 / 49					.2	1.7	1.2	1.2										36	36						
4 / 47					1.1	.6	.6	.8										26	26						
4 / 45				.1	1.5	1.9	1.3	.2										42	42	2					
4 / 43				1.1	2.2	1.2	2.2											55	55	14					
2 / 41			.7	.6	1.9	.8	.7											40	40	34					
4 / 39			.1	1.5	2.4	1.1	.1											43	43	39					
3 / 37			.6	1.6	1.2	1.7												42	42	51					
7 / 35		.5	1.2	1.5	1.9	.7												48	48	58					
3 / 33		1.1	.5	2.2	1.2	.2												43	43	74	11				
2 / 31		.6	2.7	3.9	1.1	.2												70	70	67	26				
7 / 29	.2	.7	3.4	2.9														60	60	51	43				
2 / 27		1.9	2.9	1.9														56	56	77	47				
7 / 25	.1	1.8	1.5	1.1	.1													38	38	102	50				
2 / 23		1.5	.6	.5														21	21	67	43				
2 / 21	.5	1.9	.8	.2														29	29	39	59				
7 / 19	.1	1.6	1.2	.1														25	25	31	107				
7 / 17	.1	1.6	.5															18	18	23	86				
1 / 15	.1	1.7	.7															21	21	27	87				
1 / 13		.7																6	6	15	56				
1 / 11	.1	.6																6	6	10	49				
7 / 9		.8																7	7	7	34				
7 / 7		.5																4	4	7	42				
7 / 5		.6																5	5	7	12				
4 / 3		.4																3	3	2	20				
7 / 1	.1	.8																8	8	2	19				
7 / -1	.2	.1																3	3	9	10				
- / -3		.2																2	2	2	2				
- / -5		.2																2	2	1	3				
Element (X)	Σ H		Σ H		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								Total				
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F							
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

725697  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

DEC  
MONTH

PAGE 2

1200-1400  
HOURS (12-5-1)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
- / -7	.4	.4																	6	6	5	1										
- / -9																					3	7										
- / -11																						4										
- / -15																						4										
- / -17																						4										
- / -19																						4										
TOTAL	2.12	0.31	7.41	9.11	4.91	1.1	8.2	5.0	1.3	.5									826	826	826	93										



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY  
STATION STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
59									.1	.1								2	2	
57								.2	.1									3	3	
55							.1	.7	.2									9	9	
53						.1	.5	.6	.1									11	11	
51					.1	.4	.6	.6										14	14	
49					.5	1.0	.4	.7										21	21	
47					.7	1.1	1.1	.4										27	27	
45				.9	1.5	1.6	1.5	.4										47	47	
43				.6	1.8	2.1	1.5											49	49	8
41			.2	1.2	1.7	.6	1.0											39	40	22
39		.1	.5	2.0	1.1	1.5												42	42	36
37			.7	1.2	2.0	1.5	.1											45	45	43
35		.1	.9	1.7	.7	1.0												36	36	58
33		.4	1.2	2.5	1.1	.2												44	44	70 12
31		.9	3.9	4.4	.9	.1												83	83	49 21
29	.1	1.0	3.3	2.2	.4													57	57	66 30
27	.4	1.5	2.2	2.6														54	54	96 41
25		1.1	1.7	.5	.1													28	28	84 61
23		1.0	.7	.6														19	19	51 44
21	.6	1.5	1.5	.1														30	30	39 50
19	.9	3.0	2.0															47	47	45 92
17	.1	1.5	.6															18	18	39 95
15	.2	1.2	.2															14	14	19 72
13		1.5	.5															16	16	15 60
11	.1	1.7																15	15	18 57
9	.1	.2																3	3	14 46
7		.5																4	4	2 42
5	.4	.4																6	6	8 14
3	.1	.4																4	4	4 7
1		.6																5	5	4 34
-1	.1	.4																4	4	6 3
-3	.1	.2																3	3	2 4
-5	.2	.2																4	4	3 3
-7	.1																	1	1	3 3
Element (X)	Σ X <sup>2</sup>		Σ X		X		C <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total			
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 0-26-5 (OLA) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
- / -9	.1																		1	1	1	1			
- / -11	.4																		3	3	3	1			
-1 / -13	.1																		1	1	1	4			
-1 / -15	.1																		1	1	1	2			
-1 / -17	.1																		1	1	1	3			
- / -19																						3			
- / -21																						4			
-2 / -23																						1			
-2 / -25																						1			
TOTAL	4.4	19.5	20.3	20.6	12.7	11.2	6.8	3.7	.6	.1									811	812	811	811			

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2735825	45041	55.5	17.010	811	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	
Dry Bulb	958126	25898	31.9	12.764	812	2.2	48.3					93
Wet Bulb	642360	21366	26.3	9.905	811	2.4	65.8					93
Dew Point	291572	13308	16.4	9.506	811	3.8	91.6					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725697 NATRONA CO/CASPER WY

73-81

YEARS

DEC  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
2 / 51							.1											1	1					
5 / 49					.2	.2	.9											11	11					
4 / 47				.1	.1	.9	.4											12	12					
4 / 45				.2	.6	.5	.5											15	15					
4 / 43				.9	1.7	1.8	.7											42	42					
2 / 41			.6	2.6	1.6	1.7	.1											54	54	3				
4 / 37			.9	1.1	.9	.5												27	27	9				
3 / 37		.1	.5	2.7	.7	.2												35	35	44				
2 / 35		.2	.6	1.7	1.0	.4												32	32	41				
3 / 33		.7	.9	2.1	.5													34	34	64	5			
2 / 31		1.7	3.0	4.8	.6	.1												77	77	45	26			
1 / 29	.1	1.5	3.7	2.3	.2													64	64	48	26			
2 / 27	.1	1.4	3.2	1.5														50	50	64	30			
1 / 25	.5	2.5	.9	.2														33	33	89	51			
2 / 23	.4	1.7	.9	.7														30	30	72	40			
2 / 21	.1	2.7	2.3	.5														46	46	32	50			
1 / 19	.9	4.9	2.2															65	65	52	86			
1 / 17	1.3	2.3	.9															34	34	68	85			
1 / 15	1.7	2.2	.5															30	30	41	69			
1 / 13	.7	2.7	.1															29	29	25	66			
1 / 11	.6	.9	.4															15	15	29	69			
1 / 9	.1	1.2																11	11	13	49			
1 / 7	.4	1.1																12	12	16	30			
1 / 5	.4	.1																4	4	8	26			
1 / 3	.9	.1																8	8	7	24			
1 / 1	.5	1.3																12	12	12	25			
1 / -1	.5	.2																6	6	5	16			
-1 / -3	.1	.1																2	2	4	3			
-1 / -5	.4																	3	3	3	9			
-1 / -7	.5																	4	4	4	3			
-1 / -9																					4			
-1 / -11	.1																	1	1	1	1			
-1 / -13																					4			
-1 / -15	.6																	5	5	5	1			
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

YEARS

DEC

PAGE 2      1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
1/-17	.4																	3	3	3	
1/-19	.6																	5	5	5	3
1/-21																					2
2/-23	.1																	1	1	1	2
2/-25																					3
2/-27																					3
2/-29																					1
2/-33																					1
TOTAL	17.9	28.8	21.4	21.5	8.2	6.4	2.7											813	813	813	813

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
YEARS

DEC  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb		Dew Point		
5 / 49							.1	.1										2	2				
4 / 47					.2	.1	.4											6	6				
4 / 45					.1	.7												7	7				
4 / 43				.5	1.2	2.3	.1											34	34				
2 / 41			.7	2.8	1.8	1.4	.4											58	58	1			
4 / 39			.7	1.8	.6	1.4												37	37	3			
3 / 37			1.6	1.1	1.1	.6												36	36	19			
3 / 35		.5	1.4	.6	.9	.6												32	32	47			
3 / 33		.2	.7	2.1	.2													27	27	70	5		
2 / 31		.5	3.1	4.4	.1	.4												69	69	39	16		
2 / 29	.1	1.6	3.7	2.5														58	58	42	29		
2 / 27	.4	2.3	2.3	1.4														52	52	76	28		
2 / 25	.1	1.7	2.1	.1														33	33	80	40		
2 / 23	.4	2.0	.9	.1														27	27	57	36		
2 / 21	.5	4.1	2.2	.1														56	56	55	52		
2 / 19	.7	4.1	2.1															56	56	45	76		
1 / 17	.7	3.1	1.2															41	41	63	80		
1 / 15	1.1	2.6	.5															34	34	45	69		
1 / 13	.9	2.0	.2															25	25	34	76		
1 / 11	1.1	2.7	.2															33	33	25	70		
1 / 9	.4	.4																6	6	26	52		
1 / 7	.9	.9																14	14	13	49		
1 / 5	.9	.1																8	8	10	22		
1 / 3	1.3	.1																9	9	10	19		
1 / 1	.6	1.1																14	14	10	24		
1 / -1	.5	.5																8	8	9	17		
1 / -3	.4	.5																7	7	10	7		
1 / -5	.1																	1	1	1	9		
1 / -7																					3		
1 / -9	.6																	5	5	5	2		
1 / -11	.2																	2	2	2	5		
1 / -13																					3		
1 / -15	.4																	3	3	3	6		
1 / -17	.4																	3	3	3			
Element (X)	$\Sigma X^2$		$\Sigma X$		$\Sigma$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature										Total		
Rel. Hum.											$\pm 0 F$	$\pm 32 F$	$\pm 67 F$	$\pm 73 F$	$\pm 80 F$	$\pm 93 F$			Total				
Dry Bulb																							
Wet Bulb																							
Dew Point																							

FORM 0-26-5 (OL A) REPRODUCED BY AIR FORCE OFFICE OF  
USAFETAC

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 2      2100-2300  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

DEC  
MONTH

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
- / -7	.3	.1																26	26	35	21		
- / -9	.3	.1																21	21	22	15		
- / -11	.2																	13	13	17	32		
-1 / -13	.2																	3	3	3	22		
-1 / -15	.2																	13	13	13	22		
-1 / -17	.2																	10	10	10	23		
-1 / -19	.3																	22	22	22	31		
-1 / -21	.2																	11	11	11	14		
-2 / -23	.1																	4	4	4	11		
-2 / -25																					12		
-2 / -27	.1																	4	4	4	9		
-2 / -29	.1																	4	4	4	12		
-2 / -31																					4		
-2 / -33																					1		
-3 / -35																					3		
-3 / -37																					4		
-3 / -39																					2		
TOTAL	17.7	28.2	21.7	17.3	10.0	7.5	3.0	1.2	.3	.1								6534	6539	6534			
																		</					

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**0-26-5 (OLA)**

FORM 1041

**USAFETAC**



## PSYCHROMETRIC SUMMARY

YEARS

ALL  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
27/101																	.7	1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

AD-A118 506

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
NATRONA COUNTY/CASPER, WYOMING. REVISED UNIFORM SUMMARY OF SURF--ETC(U)  
JUL 82

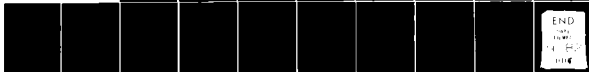
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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

72569 NATRONA CO/CASPER WY

73-81

ALL

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point				
3 / 33	.2	1.3	1.0	1.0	.4	.0														3003	3008	4347	3257	
2 / 31	.3	1.6	1.6	1.1	.2	.0														3731	3731	4003	5112	
1 / 29	.4	1.1	1.4	.6	.0															2717	2718	3742	4479	
2 / 27	.2	1.3	1.2	.4	.0															2409	2413	3671	4931	
1 / 25	.2	1.1	.9	.2	.0															1818	1819	3445	4387	
2 / 23	.1	.9	.6	.1																1298	1300	2444	3388	
2 / 21	.2	1.1	.6	.0																1498	1498	1924	3947	
1 / 19	.2	1.6	.5	.0																1806	1811	1695	5144	
1 / 17	.2	.9	.3	.0																1093	1095	1681	3564	
1 / 15	.2	.9	.1	.0																964	968	1166	3000	
1 / 13	.3	.7	.1																	804	806	966	2577	
1 / 11	.2	.5	.0																	592	593	723	2232	
1 / 9	.1	.4	.0																	462	462	664	1744	
1 / 7	.2	.4	.0																	459	460	453	1315	
1 / 5	.2	.2	.0																	339	340	459	717	
1 / 3	.3	.2	.0																	382	382	383	628	
1 / 1	.2	.4																		454	457	407	811	
1 / -1	.3	.1																		309	309	386	461	
-1 / -3	.1	.2																		201	201	237	338	
-1 / -5	.1	.1																		157	157	140	262	
-1 / -7	.1	.0																		120	120	158	202	
-1 / -9	.2	.0																		150	150	156	221	
-1 / -11	.1	.0																		114	114	127	221	
-1 / -13	.1	.0																		57	57	60	129	
-1 / -15	.1																			67	67	67	168	
-1 / -17	.1																			52	52	52	164	
-1 / -19	.1																			53	53	53	162	
-1 / -21	.0																			31	31	31	93	
-2 / -23	.0																			17	17	17	71	
-2 / -25	.0																			8	8	8	51	
-2 / -27	.0																			10	10	10	44	
-2 / -29	.0																			6	6	6	34	
-2 / -31	.0																			1	1	1	12	
-2 / -33																							5	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OL A)  
USAFETAC  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

ALL  
MONTH

PAGE 3

ALL

**HOURS (L. S. T.)**

[illegible]

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

725690 NATRONA CO/CASPER WY

73-81

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	17.2	23.0	28.4	35.8	42.8	53.0	61.5	57.5	48.5	39.3	28.8	24.7	38.4
S D	15.163	12.027	9.533	8.173	7.270	7.576	6.228	6.601	8.588	8.418	12.268	12.944	17.075
TOTAL OBS	823	745	818	786	823	793	814	818	796	824	795	816	9651
MEAN	16.5	22.3	27.3	33.8	40.4	49.7	57.6	54.2	46.1	37.9	27.7	24.0	36.5
S D	15.253	11.899	9.552	7.981	6.851	7.346	6.156	6.488	8.466	8.427	11.996	12.864	16.171
TOTAL OBS	826	750	824	792	821	797	824	824	789	817	795	816	9675
MEAN	16.8	22.3	28.1	36.8	46.2	57.7	64.3	59.2	49.6	39.3	28.0	23.6	39.4
S D	15.045	11.778	9.708	9.124	8.723	8.706	6.970	7.856	9.934	8.991	11.634	12.640	18.474
TOTAL OBS	814	747	821	796	820	794	818	816	790	812	796	823	9647
MEAN	21.6	28.2	35.7	46.3	55.8	69.1	76.2	72.2	63.3	50.5	35.0	28.3	48.6
S D	14.415	11.903	10.851	11.576	10.910	9.819	7.433	8.134	11.207	11.216	12.780	12.621	21.297
TOTAL OBS	819	746	821	794	820	794	821	808	797	815	789	820	9644
MEAN	27.2	33.4	41.3	52.3	61.1	75.6	83.1	79.8	71.3	57.9	41.0	33.5	54.9
S D	13.921	11.693	11.626	12.673	11.626	10.588	7.486	8.166	11.847	12.634	13.971	12.631	22.163
TOTAL OBS	812	752	823	790	813	793	817	821	789	807	790	826	9633
MEAN	26.3	33.6	42.2	52.7	61.2	76.1	84.0	80.5	72.3	58.0	39.6	31.9	54.9
S D	14.145	11.765	11.415	13.090	11.614	11.058	7.997	8.600	12.090	13.130	14.223	12.764	22.768
TOTAL OBS	827	750	831	790	824	785	813	815	795	827	789	812	9658
MEAN	20.5	27.1	35.2	45.9	55.0	69.5	76.8	72.2	61.9	46.9	32.3	26.6	47.5
S D	14.443	11.696	10.139	11.424	10.421	10.739	8.439	8.806	10.993	10.191	12.467	13.065	21.786
TOTAL OBS	831	750	820	792	825	791	812	828	780	819	796	813	9657
MEAN	18.5	24.6	30.6	39.0	47.1	58.9	66.7	62.4	52.9	41.5	30.0	25.0	41.6
S D	14.736	11.985	9.433	9.054	8.139	8.308	6.383	6.419	9.084	8.639	12.476	13.380	18.559
TOTAL OBS	821	748	816	788	821	794	819	826	794	813	791	813	9644
ALL HOURS	MEAN	20.6	26.8	33.6	42.8	51.2	63.7	71.3	67.2	58.2	46.4	32.8	45.2
S D	15.159	12.611	11.705	12.659	12.249	13.364	11.834	12.288	14.182	12.951	13.650	13.327	21.060
TOTAL OBS	6573	5988	6578	6328	6567	6391	6538	6556	6330	6534	6341	6539	77209

2  
GENERAL CLIMATOLOGY BRANCH  
METAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

20569 NATRONA CO/CASPER WY

73-81

STATION		STATION NAME												YEARS											
HRS (LST)		JAN	FEB.	MAR	APR.	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
0-02	MEAN	15.1	20.2	25.4	32.2	39.0	46.5	52.8	49.3	41.5	33.9	24.9	21.3	33.6											
	S D	13.832	10.505	8.048	6.628	5.886	5.684	4.203	4.819	6.279	5.833	9.698	10.844	14.424											
	TOTAL OBS	822	745	816	786	822	792	814	818	796	824	795	816	9646											
3-05	MEAN	14.5	19.6	24.6	30.9	37.3	44.7	51.0	47.7	40.1	33.0	24.2	20.8	32.4											
	S D	13.902	10.376	8.168	6.692	5.715	5.614	4.548	4.848	6.287	5.974	9.683	10.943	14.082											
	TOTAL OBS	824	750	824	791	820	797	821	824	789	817	795	814	9666											
6-08	MEAN	14.7	19.5	25.1	32.8	41.1	49.4	54.7	50.5	42.3	33.9	24.4	20.5	34.1											
	S D	13.700	10.304	8.199	7.007	6.252	5.686	3.907	4.912	6.513	6.031	9.335	10.723	15.249											
	TOTAL OBS	812	745	821	796	819	794	817	815	790	811	793	822	9635											
9-11	MEAN	18.5	24.0	30.0	38.0	45.4	53.5	58.8	55.7	48.8	40.3	29.1	23.9	38.9											
	S D	12.649	9.702	7.949	7.300	6.575	5.625	3.168	3.880	5.749	6.143	9.297	10.177	15.290											
	TOTAL OBS	819	744	821	792	820	794	820	807	795	814	789	819	9634											
12-14	MEAN	22.8	27.6	33.1	40.5	47.2	54.7	59.6	57.3	51.4	43.6	32.5	27.5	41.5											
	S D	11.664	8.895	7.744	6.933	6.306	5.214	2.861	3.552	5.416	6.370	9.216	9.594	14.250											
	TOTAL OBS	811	751	820	789	813	793	817	821	789	807	790	826	9627											
15-17	MEAN	22.2	27.9	33.5	40.5	47.3	54.4	59.2	56.9	51.2	43.2	31.5	26.3	41.2											
	S D	11.883	8.823	7.477	6.953	6.107	4.996	2.742	3.404	5.272	6.498	9.464	9.905	14.341											
	TOTAL OBS	827	747	831	789	822	785	812	814	795	827	787	811	9647											
18-20	MEAN	17.8	23.5	29.7	37.6	45.0	52.8	57.6	54.4	47.2	38.0	27.2	22.8	37.8											
	S D	12.874	9.783	7.568	6.971	6.085	5.326	3.059	3.993	5.815	6.020	9.429	10.843	15.223											
	TOTAL OBS	831	749	820	792	822	791	812	827	780	817	794	813	9648											
21-23	MEAN	16.3	21.6	27.0	34.2	41.5	49.3	54.7	51.1	43.4	35.1	25.7	21.5	35.2											
	S D	13.340	10.354	7.756	6.803	5.908	5.545	3.818	4.545	6.084	5.685	9.711	11.269	14.770											
	TOTAL OBS	821	748	814	788	821	793	819	825	794	813	791	813	9640											
ALL HOURS	MEAN	17.7	23.0	28.6	35.8	43.0	50.6	56.0	52.9	45.7	37.6	27.4	23.1	36.9											
	S D	13.356	10.349	8.534	7.767	7.072	6.503	4.675	5.492	7.280	7.303	9.951	10.827	15.073											
	TOTAL OBS	6567	5979	6567	6323	6559	6339	6532	6551	6328	6530	6334	6534	77143											

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

705690 NATRONA CO/CASPER WY

73-81

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	8.9	13.5	19.6	27.0	34.5	40.4	45.6	41.8	33.4	26.2	17.5	14.0	26.9	
S D	14.351	10.607	8.357	6.986	6.747	7.185	7.566	7.855	8.412	6.940	9.200	10.462	14.823	
TOTAL OBS	822	745	816	786	822	792	814	818	796	824	795	816	9646	
MEAN	8.2	12.9	19.0	26.2	33.4	39.8	45.4	41.5	33.1	25.9	17.3	13.8	26.4	
S D	14.308	10.530	8.407	7.246	6.568	6.726	7.010	7.250	8.117	6.740	9.352	10.618	14.769	
TOTAL OBS	824	750	824	791	820	797	821	824	789	817	795	814	9666	
MEAN	8.3	12.7	19.2	27.1	35.5	42.0	47.2	43.1	34.2	26.2	17.4	13.5	27.3	
S D	14.157	10.468	8.449	7.312	6.621	6.939	6.513	6.884	7.726	6.464	9.082	10.441	15.320	
TOTAL OBS	812	745	821	796	819	794	817	815	790	811	793	822	9635	
MEAN	11.0	15.6	20.9	27.9	35.1	40.6	46.4	42.8	35.1	28.2	19.5	15.4	28.3	
S D	12.887	9.624	7.853	7.055	7.351	7.720	6.862	7.182	7.471	6.281	8.416	9.681	14.111	
TOTAL OBS	819	744	821	792	820	794	820	807	795	814	789	819	9634	
MEAN	13.9	17.7	21.1	26.5	33.5	37.2	42.3	39.7	33.1	27.5	20.1	17.0	27.5	
S D	12.032	8.651	7.695	7.073	7.969	8.054	8.026	7.955	7.738	6.748	7.747	9.198	12.442	
TOTAL OBS	811	751	820	789	813	793	817	821	789	807	790	826	9627	
MEAN	13.5	17.8	20.6	25.8	33.4	36.0	40.6	38.0	31.3	26.4	19.3	16.4	26.6	
S D	12.216	8.656	7.682	7.473	8.348	8.273	8.777	8.447	8.302	6.790	7.990	9.506	12.324	
TOTAL OBS	827	747	831	789	822	785	812	814	795	827	787	811	9647	
MEAN	10.9	16.1	20.7	26.9	34.6	38.4	42.9	39.4	32.1	26.5	18.5	15.0	26.9	
S D	13.196	9.653	7.982	7.646	7.942	8.171	8.508	8.851	8.739	6.891	8.657	10.280	13.645	
TOTAL OBS	831	749	820	792	822	791	812	827	780	817	794	813	9648	
MEAN	9.9	14.9	20.4	27.6	35.4	40.4	45.0	40.9	33.1	26.5	17.9	14.1	27.2	
S D	13.733	10.334	8.088	7.193	7.102	7.646	8.275	8.666	8.581	7.127	9.031	10.707	14.522	
TOTAL OBS	821	748	814	788	821	792	819	825	794	813	791	813	9640	
ALL HOURS	MEAN	10.6	15.2	20.2	26.9	34.4	39.4	44.4	40.9	33.2	26.7	18.4	14.9	27.1
S D	13.537	10.020	8.100	7.276	7.403	7.829	8.008	8.086	8.218	6.787	8.755	10.192	14.043	
TOTAL OBS	6567	5979	6567	6323	6559	6339	6532	6551	6328	6530	6134	6534	77143	

2

## RELATIVE HUMIDITY

JAN  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	99.5	98.7	91.6	79.6	51.3	25.5	10.1	70.9	822
	03-05	100.0	100.0	99.6	98.7	91.5	78.5	51.9	25.1	9.7	71.0	824
	06-08	100.0	99.9	99.6	97.8	91.6	78.7	47.0	23.3	8.4	70.3	812
	09-11	100.0	100.0	99.3	94.9	84.6	65.2	34.3	13.8	3.3	65.2	819
	12-14	100.0	99.6	96.5	89.1	73.5	49.7	18.9	5.8	.4	59.1	811
	15-17	100.0	99.6	96.0	89.2	76.1	53.4	23.8	7.7	.8	60.3	827
	18-20	100.0	100.0	99.6	97.6	88.2	71.1	42.1	19.9	5.3	67.9	831
	21-23	100.0	100.0	99.6	98.9	89.9	74.9	49.1	24.0	9.0	70.0	821
TOTALS		100.0	99.9	98.7	95.6	85.9	68.9	39.8	18.1	5.9	66.8	6567

USAFETAC FORM 0-87-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

705690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81  
PERIOD

FEB  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	99.3	96.5	87.9	69.8	43.9	24.4	9.1	68.5	745
	03-05	100.0	100.0	98.9	96.7	89.6	69.7	43.9	23.2	9.3	68.6	750
	06-08	100.0	100.0	98.9	96.5	89.1	68.5	43.4	19.1	6.8	68.0	745
	09-11	100.0	99.3	96.8	90.6	75.8	52.6	26.1	11.8	2.8	61.1	744
	12-14	100.0	98.0	92.0	82.8	63.4	38.3	16.0	5.9	1.1	55.3	751
	15-17	100.0	96.9	92.2	81.4	63.9	38.3	15.3	5.0	1.1	55.1	747
	18-20	100.0	99.5	98.3	92.9	83.3	65.7	37.4	16.8	3.2	65.2	749
	21-23	100.0	100.0	99.5	96.4	88.5	70.9	42.9	23.0	6.7	68.0	748
TOTALS		100.0	99.2	97.0	91.7	80.2	59.2	33.6	16.2	5.0	63.7	5979

## RELATIVE HUMIDITY

MAR  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	99.5	96.4	88.7	74.0	55.9	35.0	10.0	71.4	816
	03-05	100.0	100.0	99.4	96.8	91.1	76.8	57.5	36.2	11.2	72.4	824
	06-08	100.0	100.0	99.4	96.6	88.9	71.6	53.6	34.5	11.1	70.9	821
	09-11	100.0	99.6	93.5	80.3	60.8	43.4	29.1	15.5	3.0	58.0	821
	12-14	100.0	95.0	79.8	59.9	40.5	28.8	16.7	7.8	1.5	48.6	820
	15-17	100.0	93.5	74.1	54.3	36.0	24.3	16.8	6.5	1.4	46.5	831
	18-20	100.0	99.1	93.0	80.1	64.1	45.9	30.2	15.9	2.7	58.7	820
	21-23	100.0	100.0	99.0	94.1	84.5	67.6	45.5	27.1	7.2	67.9	814
TOTALS		100.0	98.4	92.2	82.3	69.3	54.1	38.2	22.3	6.0	61.8	6567

FORM  
101.04

0-87-5 (OL A)

725690	NATRONA CO/CASPER WY
STATION	STATION NAME

73-81

APR  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	96.8	89.2	76.5	54.2	36.6	13.1	72.2	786
	03-05	100.0	100.0	99.7	97.3	93.2	81.9	62.7	43.4	15.9	74.9	791
	06-08	100.0	99.6	98.5	94.8	84.4	68.7	52.9	36.2	13.8	70.6	796
	09-11	100.0	97.3	84.8	67.6	47.5	34.2	23.6	15.9	6.3	53.3	792
	12-14	99.6	86.4	61.9	40.1	30.0	22.1	15.1	10.0	4.3	42.5	789
	15-17	99.0	79.7	55.5	39.9	29.8	22.8	16.3	11.2	5.7	41.6	789
	18-20	99.9	94.2	80.3	63.9	48.1	36.2	26.1	16.0	6.8	52.7	792
	21-23	100.0	99.9	98.4	91.6	76.1	58.6	42.1	26.8	12.2	66.1	788
TOTALS		99.8	94.6	84.9	74.0	62.3	50.1	36.6	24.5	9.8	59.2	6323

72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

PERIOD

MAY  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.6	97.2	90.6	78.2	61.7	42.1	14.4	73.9	822
	03-05	100.0	100.0	99.4	98.4	93.0	84.5	70.9	52.1	20.1	77.5	820
	06-08	100.0	100.0	98.9	92.7	80.3	63.7	50.2	34.8	12.8	69.0	819
	09-11	100.0	97.3	81.1	62.0	40.9	27.3	18.2	12.6	5.2	50.2	820
	12-14	100.0	83.6	58.8	38.3	26.1	17.0	12.5	8.5	2.0	40.6	813
	15-17	99.8	81.8	55.8	39.9	26.8	18.6	13.6	8.6	2.4	40.5	822
	18-20	100.0	93.4	79.8	61.4	45.1	32.0	21.5	13.9	4.9	51.0	822
	21-23	100.0	99.6	97.7	89.5	77.6	62.6	47.6	27.3	10.0	66.8	821
TOTALS		100.0	94.5	83.9	72.4	60.1	48.0	37.0	25.0	9.0	58.7	6559

7-5690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

PERIOD

JUN  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	99.6	97.1	90.0	77.4	61.1	41.3	19.8	5.8	65.0	792
	03-05	100.0	100.0	98.4	94.7	84.3	74.2	57.2	34.3	11.2	71.1	797
	06-08	100.0	98.9	93.8	84.4	67.4	44.1	28.8	12.6	3.7	58.9	794
	09-11	99.5	89.8	66.8	40.1	18.9	7.3	3.8	2.0	1.0	38.4	794
	12-14	96.5	63.8	29.9	14.4	7.3	4.8	3.9	1.9	.8	28.1	793
	15-17	94.0	55.3	27.6	14.5	8.9	5.4	3.7	2.4	1.0	27.1	785
	18-20	98.0	80.3	56.9	33.0	20.0	11.4	6.7	2.8	.9	36.4	791
	21-23	100.0	97.4	90.8	74.9	53.7	33.5	18.7	8.1	2.1	53.5	793
TOTALS		98.5	85.6	70.2	55.8	42.2	30.2	20.5	10.5	3.3	47.3	6339

## RELATIVE HUMIDITY

73-81

JUL  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	99.0	91.9	79.6	63.8	45.8	31.3	19.2	6.5	59.5	814
	03-05	100.0	100.0	96.7	87.9	78.2	63.3	45.8	25.5	8.8	66.5	821
	06-08	100.0	98.4	92.2	78.6	60.7	42.0	26.9	12.1	3.5	57.3	817
	09-11	99.8	87.8	61.5	36.7	18.8	9.5	4.0	2.4	1.0	37.9	820
	12-14	97.1	56.7	28.8	12.5	6.4	4.3	2.9	1.6	1.0	26.7	817
	15-17	93.2	48.8	24.3	12.7	8.1	4.9	3.0	2.5	.9	25.2	812
	18-20	98.9	71.8	45.9	28.9	18.1	12.1	7.4	4.1	1.2	34.5	812
	21-23	100.0	96.5	78.5	59.5	41.3	27.2	20.0	12.0	3.2	49.6	819
TOTALS		98.6	82.4	65.0	49.6	36.9	26.1	17.7	9.9	3.3	44.7	6532

725695  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

AUG  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	98.9	92.7	79.2	65.3	47.8	30.1	15.3	3.5	59.2	818
	03-05	100.0	99.3	96.7	87.4	75.4	61.8	43.9	23.5	6.9	65.2	824
	06-08	100.0	99.0	92.8	80.6	63.3	45.3	29.0	13.4	3.2	58.5	815
	09-11	99.9	85.9	62.6	38.3	19.7	8.3	4.2	2.5	.4	37.9	807
	12-14	97.8	58.1	28.7	13.8	6.6	4.0	2.4	1.1	.1	26.7	821
	15-17	95.5	49.1	23.7	12.8	8.2	5.2	3.3	1.2	.1	25.2	814
	18-20	98.9	72.3	48.2	31.0	17.7	11.9	7.6	3.4	.7	34.9	827
	21-23	100.0	97.0	80.1	60.4	42.8	26.7	16.8	7.4	1.8	48.9	825
TOTALS		99.0	82.5	65.7	50.4	37.4	26.4	17.2	8.5	2.1	44.6	6551

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725692  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

PERIOD

SEP  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	99.9	92.8	78.0	62.3	46.1	32.9	19.7	8.3	59.7	796
	03-05	100.0	100.0	95.4	83.1	69.5	55.8	40.8	27.0	11.2	63.9	789
	06-08	100.0	99.4	90.0	76.7	60.5	47.2	35.2	22.4	10.8	59.8	790
	09-11	99.9	83.0	58.6	38.4	23.9	15.3	9.9	5.7	3.3	39.6	795
	12-14	98.2	56.1	31.9	19.1	11.4	6.8	5.3	3.8	1.6	28.8	789
	15-17	94.2	45.9	27.5	16.9	11.2	7.2	4.9	2.8	1.5	26.6	795
	18-20	99.6	77.7	50.3	35.1	23.3	15.6	9.9	5.1	2.4	37.5	780
	21-23	100.0	98.2	81.7	60.6	43.7	32.0	20.0	12.1	4.2	50.9	794
TOTALS		99.0	82.5	66.0	51.0	38.2	28.3	19.9	12.3	5.4	45.9	6328

USAFETAC

FORM  
AIR 84

0-87-5 (OL A)



72569  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

PERIOD

OCT  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	99.3	94.5	84.8	69.1	53.2	39.6	26.3	9.1	62.9	824
	03-05	100.0	99.8	96.7	87.4	71.2	57.4	42.7	32.2	11.1	65.3	817
	06-08	100.0	99.9	95.2	82.7	66.6	53.3	39.1	29.1	10.5	63.3	811
	09-11	100.0	92.6	71.5	52.3	37.6	26.5	18.3	11.4	4.2	47.1	814
	12-14	99.3	74.5	48.6	30.0	21.2	15.9	10.4	6.4	2.9	36.4	807
	15-17	99.5	68.0	45.9	28.7	21.0	16.1	10.5	6.5	1.7	35.3	827
	18-20	100.0	94.4	78.1	59.5	41.6	27.3	20.3	13.0	2.4	49.4	817
	21-23	100.0	98.8	93.2	77.6	61.6	44.6	32.3	21.4	4.9	58.9	813
TOTALS		99.9	97.9	78.0	62.9	48.7	36.8	26.7	18.3	5.9	52.3	6530

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725690  
STATION

NATRONA CO/CASPER WY  
STATION NAME

73-81

NOV  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	99.9	96.5	88.2	77.5	64.3	44.3	26.9	6.2	65.9	795
	03-05	100.0	100.0	97.7	90.4	78.6	67.3	47.7	29.3	7.5	67.6	795
	06-08	100.0	100.0	97.9	90.2	79.8	64.2	46.9	28.2	8.2	67.1	793
	09-11	100.0	99.4	92.1	76.2	61.5	41.7	24.7	10.6	2.5	56.5	789
	12-14	100.0	95.4	75.3	58.0	43.3	26.2	14.3	5.9	.9	47.4	790
	15-17	100.0	93.5	76.0	59.3	47.1	30.9	16.1	6.7	1.1	48.7	787
	18-20	100.0	99.7	94.2	82.1	67.6	52.6	31.5	14.5	2.8	60.0	794
	21-23	100.0	100.0	96.1	85.5	74.3	60.1	38.9	21.7	7.2	64.0	791
TOTALS		100.0	98.5	90.7	78.7	66.2	50.9	33.1	18.0	4.5	59.7	6334

2

## RELATIVE HUMIDITY

DEC  
MONTH

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	99.3	92.4	78.1	61.9	39.7	24.0	8.2	66.0	816
	03-05	100.0	100.0	99.3	93.1	81.3	64.7	43.1	25.2	7.1	67.1	814
	06-08	100.0	100.0	99.0	93.4	83.1	65.9	43.4	24.6	6.6	67.3	822
	09-11	100.0	100.0	97.2	87.5	70.2	49.1	28.9	15.0	3.7	60.8	819
	12-14	100.0	100.0	91.4	75.7	55.3	33.5	16.8	8.0	1.3	53.7	826
	15-17	100.0	100.0	93.3	78.8	60.5	37.6	18.6	8.6	2.6	55.5	811
	18-20	100.0	100.0	99.6	91.0	78.2	55.6	33.7	18.5	4.9	63.7	813
	21-23	100.0	100.0	99.0	92.0	79.6	59.2	39.7	21.3	7.0	65.4	813
TOTALS		100.0	100.0	97.3	88.0	73.3	53.4	33.0	18.2	5.2	62.4	6534

USAPETAC FORM 0-87-5 (OL A)

8  
2GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725690  
STATIONNATRONA CO/CASPER WY  
STATION NAME

73-81

PERIOD

ALL  
MONTHCUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.9	98.7	95.6	85.9	68.9	39.8	18.1	5.9	66.8	6567
FEB		100.0	99.2	97.0	91.7	80.2	59.2	33.6	16.2	5.0	63.7	5979
MAR		100.0	98.4	92.2	82.3	69.3	54.1	38.2	22.3	6.0	61.8	6567
APR		99.8	94.6	84.9	74.0	62.3	50.1	36.6	24.5	9.8	59.2	6323
MAY		100.0	94.5	83.9	72.4	60.1	48.0	37.0	25.0	9.0	58.7	6559
JUN		98.5	85.6	70.2	55.8	42.2	30.2	20.5	10.5	3.3	47.3	6339
JUL		98.6	82.4	65.0	49.6	36.9	26.1	17.7	9.9	3.3	44.7	6532
AUG		99.0	82.5	65.7	50.4	37.4	26.4	17.2	8.5	2.1	44.6	6551
SEP		99.0	82.5	66.0	51.0	38.2	28.3	19.9	12.3	5.4	45.9	6328
OCT		99.9	90.9	78.0	62.9	48.7	36.8	26.7	18.3	5.9	52.3	6530
NOV		100.0	98.5	90.7	78.7	66.2	50.9	33.1	18.0	4.5	59.7	6334
DEC		100.0	100.0	97.3	88.0	73.3	53.4	33.0	18.2	5.2	62.4	6534
TOTALS		99.6	92.4	82.5	71.0	58.4	44.4	29.4	16.8	5.5	55.6	77143

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.

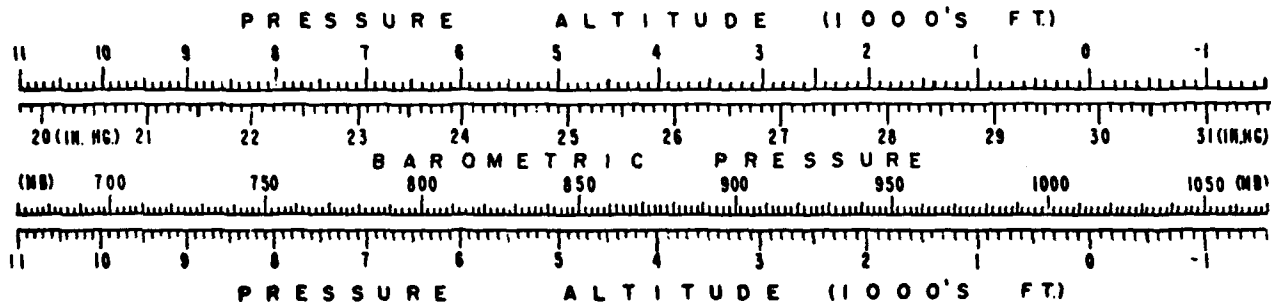
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

70569 NATRONA CO/CASPER WY

73-81

STATION

STATION NAME

YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1	MEAN	24.618	24.623	24.540	24.597	24.611	24.678	24.742	24.732	24.736	24.717	24.677	24.627	24.658
	S D	.172	.171	.176	.174	.155	.127	.099	.104	.133	.167	.173	.180	.167
	TOTAL OBS	276	250	273	261	273	267	279	273	266	279	260	279	3221
	MEAN	24.632	24.639	24.550	24.615	24.632	24.701	24.769	24.760	24.763	24.730	24.690	24.646	24.677
	S D	.174	.178	.174	.176	.161	.128	.103	.109	.142	.173	.175	.181	.172
	TOTAL OBS	274	249	276	265	279	266	271	278	269	270	266	279	3232
2	MEAN	24.630	24.633	24.554	24.616	24.630	24.698	24.771	24.757	24.763	24.728	24.686	24.643	24.675
	S D	.171	.175	.173	.177	.157	.129	.094	.100	.138	.169	.175	.181	.169
	TOTAL OBS	269	250	276	266	279	261	268	266	263	269	267	275	3204
1	MEAN	24.658	24.660	24.564	24.623	24.634	24.694	24.772	24.763	24.775	24.742	24.706	24.674	24.689
	S D	.181	.181	.174	.180	.163	.136	.100	.107	.143	.174	.177	.184	.173
	TOTAL OBS	274	248	276	264	273	268	276	268	266	276	261	276	3226
14	MEAN	24.595	24.602	24.516	24.577	24.590	24.642	24.719	24.700	24.713	24.682	24.640	24.610	24.632
	S D	.175	.177	.174	.174	.158	.127	.095	.102	.133	.165	.175	.184	.167
	TOTAL OBS	273	251	274	264	270	264	275	279	263	270	262	278	3218
7	MEAN	24.628	24.628	24.529	24.586	24.591	24.641	24.719	24.704	24.721	24.695	24.664	24.634	24.645
	S D	.175	.178	.167	.175	.157	.125	.104	.107	.141	.168	.174	.185	.167
	TOTAL OBS	278	248	276	264	276	265	279	269	261	277	269	272	3224
11	MEAN	24.623	24.620	24.535	24.595	24.598	24.642	24.718	24.707	24.725	24.705	24.664	24.626	24.647
	S D	.170	.174	.166	.167	.153	.119	.098	.100	.130	.164	.175	.182	.162
	TOTAL OBS	279	248	270	265	279	265	268	276	259	273	266	270	3218
27	MEAN	24.640	24.642	24.561	24.624	24.630	24.690	24.762	24.748	24.757	24.730	24.687	24.654	24.677
	S D	.177	.181	.168	.175	.161	.124	.108	.109	.141	.174	.172	.185	.169
	TOTAL OBS	272	248	275	266	279	264	279	276	266	273	268	273	3229
ALL HOURS	MEAN	24.628	24.631	24.544	24.604	24.614	24.673	24.746	24.734	24.744	24.716	24.677	24.639	24.663
	S D	.175	.177	.172	.175	.159	.129	.103	.108	.139	.170	.176	.183	.169
	TOTAL OBS	2195	1992	2196	2115	2188	2120	2180	2180	2113	2182	2119	2192	25767

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

7569 NATRONA CO/CASPER WY  
STATION

73-81  
STATION NAME

YEARS

MRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	1019.6	1018.2	1012.8	1013.2	1011.9	1012.3	1013.4	1013.7	1015.5	1017.0	1018.6	1018.0	1015.3
S D	8.444	8.410	8.425	7.973	7.207	5.855	4.702	4.888	6.749	7.983	8.352	8.730	7.884
TOTAL OBS	275	249	274	261	273	265	275	274	266	274	263	275	3224
MEAN	1020.0	1018.4	1013.1	1013.6	1012.5	1013.0	1014.3	1014.4	1016.2	1017.3	1019.3	1018.8	1015.9
S D	8.588	8.489	8.369	7.984	7.158	5.769	4.604	4.735	6.676	7.881	8.180	8.709	7.838
TOTAL OBS	276	249	277	265	274	267	272	278	269	272	265	274	3238
MEAN	1021.2	1019.6	1014.4	1014.6	1013.0	1013.3	1015.0	1015.2	1017.5	1018.8	1020.4	1019.8	1016.9
S D	8.700	8.692	8.293	8.006	7.134	5.828	4.563	4.625	6.729	7.781	8.238	8.812	7.943
TOTAL OBS	269	250	276	265	274	260	271	267	262	269	267	275	3205
MEAN	1020.8	1019.2	1013.7	1013.7	1012.1	1012.2	1014.1	1014.1	1016.4	1017.9	1019.6	1019.5	1016.1
S D	8.774	8.716	8.265	8.032	7.149	5.733	4.554	4.543	6.684	7.729	8.323	8.718	7.995
TOTAL OBS	273	248	276	265	273	269	276	268	267	275	264	276	3230
MEAN	1018.4	1017.1	1011.9	1012.3	1010.9	1010.7	1012.5	1012.4	1014.5	1015.6	1017.2	1017.1	1014.2
S D	8.600	8.679	8.175	7.879	7.200	5.716	4.506	4.750	6.490	7.684	8.249	8.729	7.809
TOTAL OBS	273	252	274	265	271	266	276	273	262	270	262	278	3222
MEAN	1019.6	1017.8	1012.0	1012.3	1010.7	1010.4	1012.0	1012.0	1014.4	1016.0	1018.1	1018.2	1014.4
S D	8.577	8.526	7.850	7.696	7.058	5.474	4.436	4.605	6.412	7.581	8.275	8.786	7.985
TOTAL OBS	278	248	278	264	276	265	279	270	263	278	269	272	3230
MEAN	1020.8	1019.1	1013.6	1013.6	1011.6	1010.8	1012.7	1013.1	1015.9	1017.9	1019.6	1019.2	1015.6
S D	8.515	8.684	7.871	7.724	7.157	5.482	4.663	4.719	6.457	7.682	8.471	9.045	8.075
TOTAL OBS	279	249	272	265	274	264	271	275	259	272	265	270	3215
MEAN	1020.0	1018.5	1013.5	1013.8	1012.1	1012.1	1013.6	1013.7	1015.9	1017.4	1019.0	1018.8	1015.7
S D	8.576	8.827	8.029	7.978	7.353	5.691	4.711	4.759	6.746	8.018	8.335	8.907	7.946
TOTAL OBS	272	248	275	267	274	266	275	277	265	273	268	273	3233
MEAN	1020.1	1018.5	1013.1	1013.4	1011.8	1011.8	1013.5	1013.6	1015.8	1017.2	1019.0	1018.7	1015.5
S D	8.629	8.647	8.188	7.931	7.204	5.775	4.681	4.799	6.676	7.840	8.342	8.829	7.965
TOTAL OBS	2195	1993	2202	2117	2189	2122	2190	2182	2113	2183	2118	2193	25797
ALL HOURS													

END

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